

Lodi High School
Course Catalog 2021-2022

Dear Students and Parents,

The foundation for a solid educational plan is a well thought out, challenging, academic program that reflects the students' interests and abilities. This type of foundation helps students prepare for all types of opportunities during and after high school.

This Course Catalog provides a complete overview of the courses that will be offered during the 2020-2021 school year. The catalog should be reviewed carefully so that students select a program of study that will help them reach their goals after high school. With this in mind, no one academic year should be planned in isolation. Each student should develop a four-year plan based on their post-secondary goals, their interests, and the availability of courses (some courses are only offered every other year). Students also need to take time to pick alternative courses, as there may not be room in every course selected and courses with low enrollment may be canceled due to scheduling and budget constraints. Students will continue to be placed in their core classes (English, science, social studies, and math) based on their skill level. Placement will happen for all freshmen, sophomores, and juniors in each of the core areas. Please take time to read the Align by Design section in this Course Catalog to get a better feel for this process.

Even with the placement of students in the core academic areas, parents and students need to approach the course selection and scheduling process as vitally important to the future of the student. Only by challenging themselves will students fully benefit from the offerings at Lodi High School and ultimately prepare themselves for life after high school. It is our hope that parents take an active role in ensuring that their child is taking on a challenging course load throughout their four years of high school.

Please contact the school counselor if you have any specific questions regarding this catalog. We will be available to assist you and your child often throughout the scheduling process and have set aside the following evening for parents new to the high school to come in and touch base with the counselors and teachers to learn more about each of the classes and this entire process:

8th Grade Course and Scheduling Information Night
Monday, January 6, 2020 (6:00 PM)
Location: Performing Arts Center

We appreciate you working together with us to create opportunities for success for every student, in every classroom, every day!!

Sincerely,

Joe Jelinek
LHS Principal

The mission of the School District of Lodi, a strong partnership of families, community and educators, is to inspire students to become lifelong learners who seek new understanding and skill to assume the role of responsible and contributing members of society by creating a world-class, innovative learning environment that stimulates academic and personal excellence.

It is the policy of the School District of Lodi, pursuant to s.118.13, Wisconsin Statutes, and PI 9, that no person, on the basis of sex, race, religion, national origin, color, ancestry, creed, pregnancy, marital or parental status, sexual orientation or physical, cognitive, emotional, or learning disability, or handicap may be denied admission to any school in this district, or be denied participation in, be denied the benefits of, or be discriminated against in any curricular, extra-curricular, pupil services, recreational or other program.

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ALIGN BY DESIGN

Lodi High School is engaged in a curriculum initiative called Align by Design. To adhere to this framework, the high school has aligned all of its core academic courses (social studies, science, math, and English) to the College Readiness Standards. These standards, also known as the Work Place Readiness Standards, were developed by the College Board to help students and schools define the skills that graduates need to be successful in the world after high school (a copy of the College Readiness Standards are included at the end of this course catalog). These are the same skills that are measured on the ASPIRE test that all 8th, 9th and 10th graders take, and the ACT. The goal of realigning our curriculum to these standards and our commitment to the Align by Design framework is to increase the level of work skills and college readiness of the students from Lodi.

The following are the principles behind the Align by Design model:

1. All students take a rigorous common core course of studies.
2. The student is at the center of the instructional design.
3. The curriculum is content-based and interdisciplinary.
4. Skill development is given cross-curricular emphasis to ensure students' readiness.
5. A focus is on the development of student's critical thinking skills through an emphasis on teaching conflicting interpretations.
6. The commitment is to the civic purpose of education.
7. The high school is operated by a collaborative staff, focused on student achievement, with decisions informed by data.
8. The high school is a learning community: one in which students learn as a community, and one in which students learn about community.

To achieve our goals and follow the framework of Align by Design, all students are placed in their core academic classes based on their level of skill as assessed through several different data points, including but not limited to their ASPIRE scores, i-Ready scores, their classroom performance, and their performance on the Forward Exam. As you explore the course catalog, you will notice that there are two levels of courses that freshmen, sophomores, and juniors can be placed. These classes will cover the same content in each level, but the skills which are focused on will be different. This is an important concept as it allows students to move to a different level of class if need be and ensures that the same content is covered by the end of the school year in these classes. Incoming freshmen will also have interdisciplinary units, especially between their social studies and English classes. One of the items you will see as you review the core academic classes is the title of the classes in science, social studies, and English. This is what the following titles mean:

- Plain course title—this course is designed for students whose skills are at benchmark for college readiness.
- Honors or Advanced Placement—this course is designed for students whose skills are above benchmark for college readiness.

There are also associated tables by each of these classes showing what College Readiness Standards the class will be focusing on throughout the course of the year. These tables show which standards and skills will be considered review for that class (class will spend 25% of their time on these skills), which skills will be the focus of the class (class will spend 50% of their time on these skills), and which skills will be an extension for the class (class will spend 25% of their time on these skills). The idea for each class is to spend 25% of the time reviewing and strengthening skills that students already have, 50% of the time working on skills they are developing, and 25% of the time working on skills that are above their level to push them as students. The concept is to be constantly challenging students to achieve at a higher level as they continue through their high school careers. The vision statement at Lodi High School is Creating Opportunities for Success... Every Student... Every Classroom... Every Day! Our work on aligning our curriculum to the College Readiness Standards and the Align by Design framework embodies that vision for each of our students.

It is our hope that students and their families will take advantage of these new opportunities that are being offered at Lodi High School. With this model, students will have the opportunity to take more rigorous course work which will help them prepare for life after high school regardless if they planning on going straight into the work force, into the military, into the technical school system, or to a four-year college.

REGISTRATION PROCEDURE

1. Students will have access to the 2021-2022 course catalog on the high school counseling website.
2. Students should look through the course catalog with a parent/guardian to get ideas of courses they wish to take, keeping in mind that it is important to consider graduation requirements and course pre-requisites. In addition, students are encouraged to consider the courses they plan to take throughout their high school years when planning next year's schedule.
3. Students will schedule their course requests online through Infinite Campus during English classes. Please consider choices carefully, as they may become your scheduled courses.
4. Teachers will review preliminary course lists to determine the appropriateness of student choices and may recommend placement changes as needed. If students have questions on the appropriateness/difficulty of a course, please consult with your teachers and/or counselor.
5. Counselors will attempt to meet individually with all students who will be in grades 10-12 (beginning with grade 12) to review their schedules in late spring. Students will receive a copy of their schedule prior to the start of the school year and may request schedule changes before the first day of school. However, there are no guarantees that all requests for schedule changes can be granted.

GRADUATION REQUIREMENTS

Social Studies – 4 credits

- 1.0 cr. Human Geography
- 1.0 cr. World History
- 1.0 cr. U.S. History
- 0.5 cr. Govt. and Social Issues
- 0.5 cr. Social Studies Elective

English/Language Arts – 4 credits

- 1.0 cr. Literature & Composition
- 1.0 cr. World Literature
- 1.0 cr. American Literature or AP English Language & Composition
- 0.5 cr. Oral Communication
- 0.5 cr. Senior English Course

Science – 3 credits

- 1.0 cr. Science 9
- 1.0 cr. Biology
- 1.0 cr. Physical Science (at least 0.5 credit must be a Chemistry class)

Math – 3 credits

- 3.0 credits math

Physical Education – 1.5 credits

Health – 0.5 credit (in high school)

Career & Technical Education – 0.5 credit

Fine Arts – 0.5 credit

Financial Literacy – 0.5 credit

STEAM 1 – 0.5 credit (starting with class of 2022)

Electives – 6.0 credits (starting with class of 2022)

Total Credits: 24

STUDENT ACADEMIC POLICIES AND PROCEDURES

THE POLICY FOR REPEATING CLASSES

Students who receive an F for their first or second semester grade in a required class will have to repeat the semester they failed. If, for instance, a 9th grader fails the first semester of English 9 and passes the second semester, he/she will be required to repeat only the first semester of that class. However, if the first half of a class is a prerequisite for the second half (e.g., math classes) a student who fails the first half will need to retake and pass the first half before taking the second half of the class. Students who fail the same class twice will need to make up the credit through the Lodi High School's credit recovery courses.

SCHEDULE CHANGE POLICY

We recognize that circumstances change, and we may allow some revisions in the schedule. Please see a counselor if you are interested in requesting a schedule change. All schedule changes will be subject to availability and class size. A change may not be allowed if it will reduce a class size to less than 10 students. Requests should be completed **one week before the semester begins**.

NOTE: You must go to the class listed on your schedule *until* this process is *completed*.

GRADING SYSTEM & SCALE

A+ = 100	4.000	B+ = 88-89	3.333	C+ = 78-79	2.333	D+ = 68-69	1.333	F < 60	0.000
A = 93-99	4.000	B = 83-87	3.000	C = 73-77	2.000	D = 63-67	1.000		
A- = 90-92	3.667	B- = 80-82	2.667	C- = 70-72	1.667	D- = 60-62	0.667		

An "E" would be the same as a "D"; **1.0**

A "P" grade earns credit but does not affect GPA.

ACADEMIC RECOGNITION

Laude System

The purpose of the Laude System is to recognize students for the rigor of their academic program as well as their success in that program.

Laude Score

A student's Laude Score will be determined by multiplying 1) the student's cumulative GPA after first semester senior year by 2) the number of Laude Points earned in recognized courses completed while in high school.

Award Levels

There are three levels of awards

- Summa Cum Laude
- Magna Cum Laude
- Cum Laude

Laude Score ranges for each Award Level

60 and above	Summa Cum Laude
45-59.999	Magna Cum Laude
30-44.999	Cum Laude
29.999 and below	No laude recognition

Cum Laude Recognized Courses

The courses listed below are used in the calculation for Laude Points. Students only earn Laude Points for courses that they complete with a passing grade. AP courses count as 1.0 point each. Honors courses count as 0.5 point each. Generally, for other courses, semester-long courses count as 0.5 point each and year-long courses count as 1.0 point each. Other courses may be considered for recognition through an approval process.

English

- Honors Lit & Comp (0.5)
- Honors World Lit & Comp (0.5)
- AP English Language (1.0)
- AP English Literature (1.0)

Science

- Honors Science 9 (0.5)
- Honors Biology (0.5)
- Honors Chemistry 1 (0.5)
- AP Biology (1.0)
- AP Environmental Science (1.0)
- Chemistry 2 (1.0)
- Physics (1.0)

Math

- Accelerated in Integrated Math 1, 2, or 3 (0.5)
- Integrated Math 4 (1.0)
- AP Calculus AB (1.0)
- AP Calculus BC (1.0)

Social Studies

- AP Human Geography (1.0)
- AP World History (1.0)
- AP US History (1.0)
- AP Psychology (1.0)
- Economics (0.5)

Foreign Language

- Spanish 3 (1.0)
- Spanish 4 (1.0)
- Spanish 5 (1.0)
- Spanish Language Arts (1.0)

Fine Arts

- 6 total semesters of Art courses (1.0) – ***a capstone project is also required***
- 7 total semesters of Music courses (0.5) – ***a capstone project is also required***
- 8 total semesters of Music courses (1.0) – ***a capstone project is also required***

Career & Technical Education

- AP Computer Science Principles (1.0)
- Certified Nursing Assistant (0.5)
- Advanced CAD (0.5)
- Manufacturing 2 (0.5)
- Biotechnology (0.5) – ***cannot be counted toward total Ag courses***
- 4 total Ag courses (0.5) – ***a capstone project is also required***
- 8 total Ag courses (1.0) – ***a capstone project is also required***
- Certification in Youth Apprenticeship (0.5)

Capstone Projects

Music: Receive a rating of 2 or better in a Class A solo at District Solo & Ensemble

Art: Participate in Visual Arts Classic or Capitol Conference Art Show

Ag (4 Ag courses): Turn in a State Proficiency Application

Ag (8 Ag courses): Turn in a State FFA Degree Application

National Honor Society

Gold cords are worn at graduation by seniors who have been inducted into the Academician Chapter of National Honor Society.

SCHOOL COUNSELING

Lodi's counselors offer individual counseling and classroom guidance to all students. Counselors are trained to help students satisfy students' personal, social, academic and career growth needs. Counselors offer personal and social problem counseling, as well as assistance in educational and career planning. Counselors also hold individual planning meetings for students in the spring of 11th grade.

Postsecondary Options

Start College Now Program

The Start College Now Program permits any 11th or 12th grade student to attend and earn credit at a Wisconsin technical college for the purpose of taking one or more non-sectarian courses for credit and possibly for high school credit. The board of education shall determine whether the course(s) satisfies high school graduation requirements under state law, if the course(s) is comparable to one offered in the district and if any high school credits will be awarded to the student. Students shall notify the counselor and building principal no later than January 25 if the pupil intends to enroll in the fall semester, and no later than August 25 if enrolling in the spring semester in order to comply with board approval timelines. The board will pay for up to 18 postsecondary semester credits per pupil. If the pupil receives a failing grade in a course, or fails to complete a course for which the school board has already made payment, the pupil's parent/guardian or the pupil if he/she is an adult, shall reimburse the school board the amount paid on the pupil's behalf. If the school board is not reimbursed as requested, the pupil is made ineligible to participate any further in the program.

*Certified Nursing Assistant (CNA)

Applications for youth options (for juniors & seniors) must be turned in by January 25th of the previous year for the fall semester or by August 25th for the following spring semester. Students who attend will earn a CNA certificate after completing the 120-hour course. The course includes approximately 70 hours of classroom and lab work (time and 50 hours of actual clinical experience.) Students learn the skills to work as a CNA as well as being exposed to many other health professions during the course. Upon successful completion the student is able to obtain a job as a CNA anywhere in the State of Wisconsin. This class is a Madison Area Technical College credit course, as well as high school credit course.

Credit: 0.5

Early College Credit Program

The Early College Credit Program permits any 9-12 grade student to attend and earn credit at a Wisconsin institution of higher education for the purpose of taking one or more non-sectarian courses for credit and possibly for high school credit. For the purposes of this program, an "institution of higher education" includes an institution within the University of Wisconsin System, a tribally controlled college, and a private, nonprofit institution of higher education located in Wisconsin. The board of education shall determine whether the course(s) satisfies high school graduation requirements under state law, if the course(s) is comparable to one

offered in the district and if any high school credits will be awarded to the student. Students shall notify the counselor and building principal no later than January 25 if the pupil intends to enroll in the summer of fall semester, and no later than August 25 if enrolling in the spring semester in order to comply with board approval timelines. The board will pay for up to 18 postsecondary semester credits per pupil. If the pupil receives a failing grade in a course, or fails to complete a course for which the school board has already made payment, the pupil's parent/guardian or the pupil if he/she is an adult, shall reimburse the school board the amount paid on the pupil's behalf. If the school board is not reimbursed as requested, the pupil is made ineligible to participate any further in the program.

LEADERSHIP OPPORTUNITY

Leadership Council

Our Leadership Council is committed to the health and wellness of students. The group participates in a variety of community service activities for students and for the larger community. There is a Student Leadership Workshop during August for students in grades 9-12. All students are eligible to attend this workshop and details concerning this event are advertised during the month of May. Selection is based on a first come first serve basis. Topics include developing leadership skills, exploring volunteer opportunities, creating a positive school environment, making appropriate decisions, and establishing the year's goals for Lodi High School.

ENGLISH

English Department Course Offerings						
Courses	Course Length	Credit	9	10	11	12
Elements of Literature & Composition	1 Year	1	X			
World Literature & Composition	1 Year	1		X		
American Literature & Composition	1 Year	1			X	
AP English Language & Composition	1 Year	1			X	
Oral Communication	1 Semester	0.5		X	X	X
Shakespeare	1 Semester	0.5			X	X
Intro. To Reading & Writing Strategies (English 12)	1 Year	1				X
AP English Literature & Composition	1 Year	1				X
Writing for Publication	1 semester or 1 year	0.5 or 1.0	X	X	X	X
Creative Writing Workshop	1 Semester	0.5		X	X	X
Advanced Creative Writing	1 Semester	0.5		X	X	X

The following English courses are designed to help students develop their communication skills and appreciation of great literature of all types. All courses aim to develop students' writing, reading, speaking, listening, and thinking skills. While courses may differ in focus, all courses will be academically demanding of students at their levels.

Elements of Literature & Composition

This course introduces the fundamentals of effective reading and writing skills including the style, structure, and language appropriate for various purposes and audiences. Students will be actively involved in research methodology, writing, and speaking. As part of the course work, students will review grammar and usage, study vocabulary, read and analyze selected fiction and nonfiction texts, develop critical thinking and writing skills, and utilize technology to develop multimedia projects and presentations.

Credit: 1.0

Students will be placed into one of the following Elements of Lit & Comp classes:

Elements of Literature & Composition: This course is designed for students whose skills are at benchmark for college readiness.

***Honors Elements of Literature & Composition:** This course is designed for students whose skills are above benchmark for college readiness. It offers a more in-depth study of the literature and requires students to write and speak at advanced levels.

Note: A summer assignment is required for this course.

World Literature & Composition

This course introduces students to world literature through the study of its traditions, techniques, and genres. The course emphasizes extensive instruction in the writing process, as students compose narrative, informative, and persuasive pieces dealing with literature and other topics. Grammar is taught within the context of the writing. Vocabulary development builds on the program started at the freshman level.

Credit: 1.0

Students will be placed into one of the following World Lit & Comp classes:

World Literature & Composition: This course is designed for students whose skills are at benchmark for college readiness.

***Honors World Literature & Composition:** This course is designed for students whose skills are above benchmark for college readiness. It offers a more in-depth study of the literature and requires students to write and speak at advanced levels.

Note: A summer assignment is required for this course.

American Literature & Composition

This course offers a historical survey of all genres of American literature. Students will study literary eras, themes, and major authors. They will practice narrative, informative, and persuasive writing as well as research college/career options. Vocabulary development will build on the program started in ninth grade.

Credit: 1.0

***AP English Language & Composition**

This is a course for advanced English students able and willing to do college-level work in writing and rhetorical analysis. The course focuses on complex nonfiction American texts from a variety of historical periods and disciplines. Students learn to read critically, express themselves clearly, argue effectively, and address deceptive use of language. While taking the AP English Language and Composition exam is not a requirement for students in this course, students will dedicate some time preparing for it. Students who successfully complete the exam may earn college credit.

Note: A summer assignment is required for this course.

Credit: 1.0

Oral Communication

Oral Communication is an introductory course in speech composition. Its purpose is to improve one's skills in writing and presenting effective public speeches. Students will prepare a variety of formal speech presentations through research and writing and then present their work in the form of persuasive and informative speeches. Students will take Oral Communication during their junior or senior year and will be expected to use the skills acquired in previously taken English classes.

Prerequisite: 10th grade

This course is required for graduation

Credit: 0.5

Shakespeare

This course provides students with the opportunity to study Shakespeare's plays and sonnets. Students will study a variety of Shakespeare's tragedies, comedies, romances, and histories in addition to selected sonnets. Students will present their knowledge and ideas through various formal and informal writings. The class will take field trips to see live productions of Shakespeare's plays. The first play studied in the fall term will be dictated by what American Players Theatre offers that season.

Prerequisite: 11th grade

Credit: 0.5

Introduction to Reading & Writing Strategies (Also known as English 12)

This course is a combination of two Madison College courses. This course teaches students skills needed to approach, navigate, and comprehend textbooks as well as the other college-level readings (essays, articles, arguments, documents). The course also prepares students in writing skills needed in most college level classes. Sections of the coursework are theme-oriented and the coursework builds to a final 5-7 page research-based, thesis-driven essay.

Students who attain a grade of C or higher earn 6 elective credits at Madison College.

Prerequisite: 12th grade

Credit: 1.0

***AP English Literature & Composition**

This is a course for students with advanced skills. It is intended to prepare students for the Advanced Placement English Literature and Composition exam in May. In this course, students will practice critical analysis of literary works of fiction, drama, and poetry, then compose arguments supporting their interpretations. Students will examine the choices authors make and the techniques they utilize to achieve their purpose and generate meaning.

Note: A summer assignment is required for this course.

Prerequisite: 12th grade

Credit: 1.0

ELECTIVE COURSES

(Courses below do **NOT** fulfill the English graduation requirement)

Writing for Publication

This course is designed to introduce students to journalism by involving students in all aspects of producing the school yearbook and newspaper, with the potential for adding digital elements and video broadcasts. Students are responsible for interviewing, reporting, writing, proofreading, editing, designing layouts, and using desktop publishing for articles. Students are also responsible for selling and designing advertising which appears in the publications. Accuracy in journalistic writing skills will be stressed.

Note: Students may take this course 1 or 2 semesters each year.

Credit: 0.5 Elective each semester course is taken

Creative Writing Workshop

Creative Writing Workshop is designed to provide a creative outlet for students who have an interest in studying and writing various literary genres. Students will read and discuss articles on the craft of writing, evaluate model texts, and practice writing their own original pieces. They will participate in a writing workshop with the goal of creating a final portfolio focused on poetry and short stories. Students will improve their skills in descriptive writing and peer-editing.

Prerequisite: 10th grade

Credit: 0.5 Elective

Advanced Creative Writing

Advanced Creative Writing is designed for students who have completed the prerequisite Creative Writing Workshop course and wish to further their writing skills in various literary genres. Students will read and discuss articles on the craft of writing, evaluate model texts, and offer constructive critiques of their peers' writing. They will work through the process of writing their own original pieces focused on the genre of their choice with the goal of publishing their works.

Prerequisite: Creative Writing

Credit: 0.5 Elective

Principles of Literacy 9

This is a course designed to raise student achievement in reading comprehension skills. Individualized instruction targets reading skills to support your learning in all content areas. Other literacy-building activities include independent silent reading, oral reading fluency, and review of challenging vocabulary from your core area classes. Students will be enrolled concurrently in the Elements of Literature and Composition class.

Credit: 1.0 Elective

Principles of Literacy 10

This is a course designed to raise student achievement in reading comprehension skills. Individualized instruction targets reading skills to support your learning in all content areas. Other literacy-building activities include independent silent reading, oral reading fluency, and review of challenging vocabulary from your core area classes. Students will be enrolled concurrently in the World Literature and Composition class. **Students are placed into this course.**

Credit: 1.0 Elective

MATH

Transitional Math A

This course integrates the math topics of algebra, geometry, statistics/probability, and problem solving. Transitional Math A utilizes beginning level ACT College and Workplace Readiness Standards. This course will be run on a double block and run through the entire year. The goal of this course is to prepare students for college level mathematics.

Students are placed into this course.

Credit: 2.0

Review CRS	Focus CRS	Extend CRS
Basic Skills	13-15	16-19

Intermediate Math

This course integrates the math topics of algebra, geometry, statistics/probability, and problem solving. Intermediate Math utilizes beginning and intermediate level ACT College and Workplace Readiness Standards. The goal of this course is to prepare students for college level mathematics.

Students are placed into this course.

Credit: 1.0

Review CRS	Focus CRS	Extend CRS
13-15	16-19	20-23

Integrated Math 1

This course integrates the math topics of algebra, geometry, statistics/probability, and problem solving. Integrated Math 1 utilizes intermediate level ACT College and Workplace Readiness Standards. The goal of this course is to prepare students for college level mathematics.

Students are placed into this course.

Credit: 1.0

Review CRS	Focus CRS	Extend CRS
16-19	20-23	24-27

Integrated Math 2

This course integrates the math topics of algebra, geometry, statistics/probability, and problem solving. Integrated Math 2 utilizes both intermediate and advanced level ACT College and Workplace Readiness Standards. The goal of this course is to prepare students for college level mathematics.

Prerequisite: Integrated Math 1 or teacher recommendation

Credit: 1.0

Review CRS	Focus CRS	Extend CRS
20-23	24-27	28-32

Integrated Math 3

This course integrates the math topics of algebra, geometry, statistics/probability, and problem solving. Integrated Math 3 utilizes advanced level ACT College and Workplace Readiness Standards. The goal of this course is to prepare students for college level mathematics.

Prerequisite: B or better in Integrated Math 2 or teacher recommendation

Credit: 1.0

Review CRS	Focus CRS	Extend CRS
24-27	28-32	33-36

***Integrated Math 4**

This course integrates the math topics of algebra, geometry, statistics/probability, and problem solving. Integrated Math 4 utilizes advanced level ACT College and Workplace Readiness Standards along with topics in Pre-Calculus. The goal of this course is to prepare students for college level mathematics.

Prerequisite: B or better in Integrated Math 3 or teacher recommendation

Credit: 1.0

Review CRS	Focus CRS	Extend CRS
28-32	33-36	Pre-Calc

Concepts and Analysis

This course is designed to strengthen the algebraic standards of the ACT College and Workplace Readiness Standards. Topics explored are linear models, systems of equations, inequalities, and quadratics. The goal of this course is to prepare students for college level mathematics.

Students who earn a C or better in this course are eligible to earn 3 credits to MATC.

Prerequisite: Integrated Math 2 or teacher recommendation

Credit: 1.0

***AP Calculus AB**

This course follows the university level calculus AB curriculum. Topics that will be covered: Limits and continuity, the derivative and its application, integrals and its application, and infinite series. Students will have the option of taking the AP Calculus AB exam.

Prerequisite: Integrated Math 4 with a grade of B or better or teacher recommendation

Credit: 1.0

SCIENCE

Science Department Course Offerings						
Courses	Course Length	Credit	9	10	11	12
Science 9	1 Year	1	X			
Biology	1 Year	1		X		
Consumer Chemistry	1 Semester	0.5			X	X
Chemistry 1	1 Year	1			X	X
*AP Biology	1 Year	1			X	X
*AP Environmental Science	1 Year	1			X	X
Human Physiology	1 Year	1			X	X
*Physics	1 Year	1			X	X
*Chemistry 2	1 Year	1				X

The basic knowledge of the world in which we live is undergoing an explosive change as a direct result of the breakthrough in all scientific fields. Because of this, an understanding of the fundamental principles underlying modern science is essential for all students.

Science 9

This course is designed to introduce students to high school science. Semester 1 includes topics related to physical science including, but not limited to, velocity and acceleration, Newton's Laws of Motion, energy, and electromagnetism. During semester 2, an emphasis is placed on studying forces that shape our planet as well as current topics in earth science. Themes of the nature of science, as well as the practices of science and engineering, are intertwined into each area of study.

Credit: 1.0

Students will be placed into one of the following Science 9 classes:

	Review CRS	Focus CRS	Extend CRS
<u>Science 9:</u> This class will focus on the fundamentals of data interpretation and experimental design. Students will focus on interpreting and analyzing complex data tables, comparing two or more complex experiments, selecting information from more challenging scientific readings, and understanding and implementing the methods and tools used in a simple to moderately complex science experiment. Students will be introduced to evaluating scientific models and experimental results.	13-15	16-19	20-23
<u>*Honors Science 9:</u> This class is an in-depth study of data analysis and experimental design. Students will focus on interpreting and analyzing complex data tables, selecting information from challenging scientific readings, and implementing the methods and tools used in a complex science experiment. Students will also focus on the fundamentals of evaluating scientific models and experimental results.	16-19	20-23	24-27

Biology

Biology is a science course designed to introduce students to the world of living things. The objective is to increase the student's understanding and appreciation of biological concepts from the molecular level through the ecosystem level. Topics of study include taxonomy and diversity, ecology, zoology, cell biology, genetics and DNA science.

Prerequisite: Science 9

Credit: 1.0

Students will be placed into one of the following Biology classes:

	Review CRS	Focus CRS	Extend CRS
<u>Biology:</u> This class will focus on data analysis and experimental design. Students will focus on interpreting and analyzing complex data tables, selecting information from challenging scientific readings, and implementing the methods and tools used in a complex science experiment. Students will also focus on the fundamentals of evaluating scientific models and experimental results.	16-19	20-23	24-27
<u>*Honors Biology:</u> This class will focus on data interpretation; such as, comparing complex data presentations and interpolating between data points. In addition, students will learn how to understand complex experiments and predict results. Furthermore, students will be able to determine if given information supports or contradicts a hypothesis or conclusion and identifying strengths and weaknesses within models.	20-23	24-27	28-32

Chemistry

Consumer Chemistry

Consumer Chemistry will provide the basic knowledge of chemistry and give students a chance to apply that knowledge to their daily lives. Students will look at common situations they will face as a consumer and use chemistry knowledge to help them understand the situation more fully. Situations may include the chemistry of cooking, water filtration, counting calories, applying salt to melt ice, reading product ingredient lists, and the dyeing of materials. The emphasis in Consumer Chemistry will be on the ideas of chemistry with a much smaller emphasis on the mathematics involved. Students will explore the ideas of chemistry primarily using a hands-on approach.

Prerequisites: Science 9 and Biology

Credit: 0.5

Chemistry 1

Chemistry 1 is an introductory course to the fundamentals of chemistry. Topics include the process of science, laboratory procedures, solutions and solubility, chemical bonding, atomic structure, the periodic table, chemical reactions and reaction types, and acid/base chemistry. This course is designed to help students prepare for any post-high school training in a science-related field, such as agriculture or medicine.

Prerequisites: Science 9, Biology, and Integrated Math 1

Credit: 1.0

	Review CRS	Focus CRS	Extend CRS
<u>Chemistry 1:</u> This class will focus on data analysis and experimental design. Students will focus on interpreting and analyzing complex data tables, selecting information from challenging scientific readings, and implementing the methods and tools used in a complex science experiment. Students will also focus on the fundamentals of evaluating scientific models and experimental results.	20-23	24-27	28-32
<u>*Honors Chemistry 1:</u> This class will focus on data interpretation; such as, comparing complex data presentations and interpolating between data points. In addition, students will learn how to understand complex experiments and predict results. Furthermore, students will be able to determine if given information supports or contradicts a hypothesis or conclusion and identifying strengths and weaknesses within models.	24-27	28-32	33-36

***Chemistry 2**

Chemistry 2 is an advanced course in the fundamentals of chemistry. Topics include a continuation of the study and applications of the concepts from Chemistry 1, gas laws, energy and chemical reactions, and organic chemistry. Students will be highly involved in the selection and design of experiments studied in the course. Any student entering a science field after high school should strongly consider taking Chemistry 2.

Prerequisite: Chemistry 1

Credit: 1.0

Human Physiology

This is an advanced biological science course emphasizing the anatomy and physiology of the organ systems in humans. Topics include cells and tissues, bones, muscles, foods and nutrition, digestion, circulation, respiration, excretion, the endocrine gland system, and reproduction. Animal and organ dissections are part of the course. This course may be of special value to those interested in health or medically related fields. It is suggested for college bound students and those with a special interest in the human body.

Prerequisites: Science 9, Biology, and completion or concurrent enrollment in Chemistry 1

Credit: 1.0

***Physics**

This is a course primarily designed for 11th and 12th grade students with a basic interest in science and a strong background in mathematics. The following units are taught: force, motion, work, heat energy, ac and dc electricity, physical optics and modern application of physics. Computer simulations and C.B.L.'s (Calculator Based Laboratories) are utilized in the areas of universal gravitation, motion, sound, temperature, and AC/DC electricity. It is designed for students intending to continue their education in college or technical school.

Prerequisites: C or better in Integrated Math 3, or consent of instructor

Credit: 1.0

***AP Biology**

This course is designed to be the equivalent to an introductory course taken by biology majors during their first year of college. AP Biology is a rigorous course covering topics using a college level textbook and lab experiences. The units of study include the chemistry of life, cell structure and function, cellular energetics, cell communication, the cell cycle, heredity, gene expression and regulation, natural selection, and ecology.

Students have the option of taking the AP Biology exam at the end of the year and may earn college credit depending on their score and the requirements set by the post high school institution they attend.

Prerequisite: C or higher in Chemistry 1 or concurrently enrollment in Chemistry 1.

Credit: 1.0

***AP Environmental Science**

The AP Environmental Science course is designed to be the equivalent of an introductory college course in environmental science. APES is a rigorous science course that stresses scientific principles and analysis including topics of Earth systems and resources, ecology, population dynamics, land and water use, energy resources, pollution and global change. A strong laboratory and field investigation component allows students to learn about the environment through firsthand observation. Experiences both in the lab and in the field provide students with important opportunities to test concepts and principles that are introduced in the classroom and gain an awareness of the importance of confounding variables that exist in the “real world.” Students have the option of taking the APES exam at the end of the course.

Prerequisite: Biology

Credit: 1.0

Horticulture, Biotechnology, and Food Science have been approved by DPI and accepted by the UW post-secondary institutions for science credit. The course will be recorded on the student’s transcript with ES following the course title indicating it is equivalent to a half credit of science.

SOCIAL STUDIES

Social Studies Department Course Offerings						
Courses	Course Length	Credit	9	10	11	12
Human Geography	1 Year	1	X			
World History Modern	1 Year	1		X		
United States History	1 Year	1			X	
Government & Social Issues	1 Semester	0.5				X
*Economics	1 Semester	0.5			X	X
*AP Psychology	1 Year	1				X
Cultural Geography of Southeast Asia	1 Semester	0.5		X	X	X
Popular Culture in American History	1 Semester	0.5				X
War & Conflict	1 Semester	0.5			X	X

This department aims to provide the students with the knowledge and intellectual skills and attitudes necessary for effective citizenship. The courses within the department increase the students' understanding of geography, history, economics, our legal system, politics, government, and human behavior. The department also develops and reinforces those skills necessary to gather, organize, evaluate and communicate information and ideas in order to work toward the resolution of human problems.

Human Geography

This course will explore the emotional, political and physical significance that the physical place has on our sense of identity, belonging and individuality as human beings. Students engaged in this course will explore how geography impacts their everyday lives as well as the lives of people living elsewhere in the world. Some major units to be covered will be Religious Realms, Geography and Popular Culture, The Geography of Languages, and Political Patterns.

Credit: 1.0

Students will be placed into one of the following Human Geography classes:

	Review CRS	Focus CRS	Extend CRS
<i>Human Geography:</i> This course is designed for students whose skills are at benchmark for college readiness.	16-19	20-23	24-27
<i>*AP Human Geography:</i> This course is designed for students whose skills are above benchmark for college readiness. It offers a more in-depth study of human geography and will prepare students for the Advanced Placement exam, which may allow students to earn college credit.	20-23	24-27	28-32

World History

The World History course is intended to provide a framework of ten chronological periods, from 10,000 BCE to the present, viewed through the lens of related course themes, and accompanied by a set of skills that clearly define what it means to think historically. The course is organized around these themes and skills instead of a perceived list of facts, events, and dates.

Course Themes:

- 1: Interaction Between Humans and the Environment
- 2: Cultural Developments and Interactions
- 3: Governance
- 4: Economic Systems
- 5: Social Interactions and Organization
- 6: Technology and Innovation

Course Units:

- Unit 0: Foundations 10,000 BCE to 1200 CE
- Unit 1: The Global Tapestry 1200-1450 CE
- Unit 2: Networks of Exchange 1200-1450 CE
- Unit 3: Land Based Empires 1450-1750 CE
- Unit 4: Transoceanic Interconnections 1450-1750 CE
- Unit 5: Revolutions 1750-1900 CE
- Unit 6: Consequences of Industrialization 1750-1900 CE
- Unit 7: Global Conflict 1900 to present CE
- Unit 8: Cold War and Decolonization 1900 to present CE
- Unit 9: Globalization 1900 to present CE

Credit: 1.0

Students will be placed into one of the following World History classes:

	Review CRS	Focus CRS	Extend CRS
<i>World History Modern:</i> This course is designed for students whose skills are at benchmark for college readiness.	20-23	24-27	28-32
<i>*AP World Modern:</i> This course is designed for students whose skills are above benchmark for college readiness. It offers a more in-depth study of world history and will prepare students for the Advanced Placement exam, which may allow students to earn college credit.	24-27	28-32	32-36

United States History

United States History is a one-year survey course of the significant political, economic, social, cultural, and diplomatic developments in American history from the initial settlement of American colonies through the modern day. Students will use primary and secondary document analysis to address major themes, including the changing nature of U.S. Democracy, the changing face of American society, and the United States' changing role in the world.

Prerequisites: Human Geography, World History

Credit: 1.0

Students will be placed into one of the following United States History classes:

	Review CRS	Focus CRS	Extend CRS
<u>United States History:</u> This course is designed for students whose skills are at benchmark for college readiness.	24-27	28-32	33-36
<u>*AP United States History:</u> This course is designed for students whose skills are above benchmark for college readiness. It offers a more in-depth study of US history and will prepare students for the Advanced Placement exam, which may allow students to earn college credit.	24-27	28-32	33-36

Government and Social Issues (GSI)

This course will provide students with the knowledge to be effective citizens of the United States. Throughout the course an emphasis will be placed on the functions and responsibilities of local, state, and national government. Major units include an in-depth look at each branch of government; the role and function of political parties; current events; US foreign policy; and social issues facing our country today.

Credit: 0.5

ELECTIVES: Students are required to take 0.5 credit from the following courses

***Economics**

Economics is a class designed for the college bound student, or for the student who has a strong interest in economic concepts. Course assignments and assessments are challenging and if the student chooses could be geared towards preparation for an optional AP Microeconomics Exam. Course topics include a brief introduction to economic basics and globalization, followed by detailed units supply and demand, micro- and macroeconomic concepts.

Credit: 0.5

***AP Psychology**

AP Psychology is designed to introduce students to the scientific study of the behavior and mental processes of human beings. Students also learn about the ethics and methods psychologists use in their science and practice. To accomplish this, the course provides instruction in each of the following fourteen content areas: History and Approaches, Research Methods, Biological Bases of Behavior, Sensation and Perception, States of Consciousness, Learning, Cognition, Motivation and Emotion, Developmental Psychology, Personality, Testing and Individual Differences, Abnormal Psychology, Treatment of Psychological Disorders, and Social Psychology. Through the course, students will be prepared to take the Advanced Placement exam and possibly receive college credit. This course is rigorous, fast-paced, and requires advanced reading and writing skills.

Prerequisites: Human Geography, World History

Credit: 1.0

Cultural Geography of Southeast Asia

Through the use of educational technology students enrolled in this course will enjoy a comprehensive study of Southeast Asian culture and geography. Students will attain global skills needed for the 21st century by exploring the culture of the people that live in Southeast Asia, including their religions, languages, ethnic groups, food, customs and contemporary issues. This will be a distance education course team-taught by teachers from Sa-nguan-Ying school, Lodi High School's sister school in Thailand.

Prerequisite: Grade 10, 11 or 12

Credit: 0.5

Popular Culture in American History

This course will explore American history through the lens of popular culture. The course will critically examine and analyze the development, growth, and influence of American popular culture and how that has influenced the modern interconnected world today. The course will encourage students to consider ways in which popular culture embodies ideas about gender, class, race and our nation in the modern era. Finally, the course explores the global dimensions of American popular culture in the 21st century.

Credit: 0.5

War and Conflict

War and Conflict will expose students to major conflicts and global issues relevant in today's society. Students will become better acquainted with the necessary background on many of today's hottest topics in our society including: 1) Genocide, how it is defined, where and when has it happened, what has been the international response, and how can we prevent genocide in the future; 2) 20th and 21st Century wars and conflicts and the impact they have had on the modern world 3) Economic Trade Wars and Globalization including NAFTA, the TPP, CAFTA, the EU, and Brexit; 4) Domestic Conflict focusing on Civil Wars and at what point does violence become necessary as a means for regime change. The focus of this class will be examining each topic from various perspectives, analyzing the evidence (especially primary sources), and coming to a conclusion about the best course of action.

Prerequisite: Grade 11 or 12

Credit: 0.5

AGRICULTURE

Agricultural Department Course Offerings						
Courses	Course Length	Credit	9	10	11	12
Agricultural Careers & Leadership	1 Semester	0.5	X	X		
Horticulture ES	1 Semester	0.5	X	X		
Small Animal Science ES	1 Semester	0.5	X	X		
WI Fish & Aquaculture	1 Semester	0.5		X	X	X
WI Wildlife & Forestry	1 Semester	0.5		X	X	X
Agribusiness Management	1 Semester	0.5			X	X
Agricultural Processing/ Food Science ES	1 Semester	0.5			X	X
*Biotechnology ES	1 Semester	0.5			X	X
Greenhouse Management	1 Semester	0.5			X	X
Landscaping	1 Semester	0.5			X	X
Large Animal Science	1 Semester	0.5			X	X
Vet Studies & Small Animal Care ES	1 Semester	0.5			X	X

The Agriculture program of Lodi High School is designed to give students the opportunity to pursue interests in the United States number ONE employer—AGRICULTURE! The agriculture industry employs over 23 million people in the U.S., which accounts for almost 20% of the nation's work force! Within the broad scope of agriculture, there are eight career clusters for Agricultural Education: Agribusiness Systems, Animal Systems, Environmental Service Systems, Food Products and Processing Systems, Natural Resources Systems, Plant Systems, Power, Structural, Technical Systems, and Biotechnology Research and Development. These career clusters are covered in the agricultural classes offered. The information learned can be used not only for career exploration, but also for life skills and practical knowledge needed.

ES (Equivalent Science) Courses:

These courses have been approved by DPI and accepted by the UW post-secondary institutions for science credit. The course will be recorded on the student's transcript with ES following the course title indicating it is equivalent to a half credit of science.

Agricultural Careers and Leadership

This course develops student leadership skills that the student can apply in everyday life. It will focus on personal skills development and team building activities in preparation for employment. Students will explore several agriculturally-related careers in the Lodi area to directly correlate their personal employability skills with the business community's expectations and needs. To recognize the globalization of agriculture the students conduct a mock International Agricultural Food Symposium.

Credit: 0.5

Horticulture ES (Equivalent Science)

The horticulture industry is one of the fastest growing areas in the agricultural field. The students will be introduced to plant anatomy and plant identification. Horticultural skills such as plant care, plant production, floral design, landscape management and greenhouse management will be developed at the introductory level. Students will raise a plant crop and create marketing plans for it. Students are also introduced to horticultural careers in the areas of landscaping, greenhouse management, and floral design.

Credit: 0.5

Small Animal Science ES (Equivalent Science)

The focus of this class is to introduce students to the physical and behavioral characteristics of common pets and recreational animals. The purpose is to inform students of common practices, uses, and care of these animals. The pet industry and all of its facets has a large economic impact in the United States. As pet ownership increases so does the amount of money expended on pet services and supplies. Students will explore the many career opportunities available in this field and be introduced to the new careers being developed to fill the demands of today's pet owners. Students will learn about animals in society, animal welfare issues, classification and breeds of animals, anatomy, physiology, nutrition, reproduction, and animal behavior.

Credit: 0.5 This course will be offered in 2021-2022 and thereafter every other year

Wisconsin Fish & Aquaculture

Aquaculture is one of the up and coming areas in agriculture. Students will raise fish in an aquaculture system to market size. Other topics covered in this course include Wisconsin fish species, taxidermy, boat safety, waterfowl, decoy painting, fly tying and fishing trips.

Credit: 0.5 This course will be offered in 2022-2023 and thereafter every other year

Wisconsin Wildlife & Forestry

The objective of this course is to introduce students to management practices and ethical issues related to our Natural Resources. Students will explore topics on forestry management, sustainable forestry, wildlife management, hunting safety and issues, and conservation practices developed to protect the environment. Students will visit the school forest and wildlife preserves to learn more about careers in these areas.

Credit: 0.5 This course will be offered in 2021-2022 and thereafter every other year

Agribusiness Management

This course is highly recommended for students enrolled in the Youth Apprenticeship program, FFA members with strong SAE programs and/or students interested in learning about managing their personal finances. Students will be introduced to business concepts and develop their own class cooperative. Concepts covered in this course include managing finances, acquiring credit, calculating depreciation, defining various types of business organizations, and developing a method of keeping financial records. This course covers the financial literacy standards and provides students with the basic knowledge needed to manage their personal and business finances.

Prerequisite: One other agricultural class

Credit: 0.5 This course will be offered in 2021-2022 and thereafter every other year

Agricultural Processing/Food Science ES (Equivalent Science)

The main objective of this course is to introduce students to methods of food preservation and the effects of food additives, sugars, fats, colors, and flavors on food quality. Students will look at the science and chemistry involved in food processing and explore careers in the food industry. Emphasis will be placed on issues relating food safety and genetically modified foods to consumer concerns.

Credit: 0.5 This course will be offered in 2022-2023 and thereafter every other year

***Biotechnology ES (Equivalent Science)**

This course is designed to introduce students to the biotechnology revolution and its application to agriculture. Students will gain an understanding of genetic engineering, electrophoresis, biotechnology careers, and emerging technologies such as cloning and gene therapy. Student learning will focus around “hands-on” activities and discussion of social and ethical issues. This course is designed for students who wish to broaden their science background with experience in real life situations.

Prerequisite: Biology

Credit: 0.5

Greenhouse Management

This course introduces students to the various types of careers in the horticultural industry including floral design, greenhouse crops, hydroponics, marketing, and office management. The students will assist in growing a greenhouse crop, maintain and plant school gardens, create floral designs, tour retail and wholesale floral shops, and visit Olbrich Gardens.

Prerequisite: Horticulture ES

Credit: 0.5

Landscaping

Landscaping is one of the fastest growing career areas. Students will learn how to design a landscape, properly install and maintain a landscape and correct lawn maintenance. Much of the class time is spent at actual landscape sites applying the skills learned in class.

Credit: 0.5

Large Animal Science

The purpose of this class is to inform students about management practices involved in producing livestock such as, beef cattle, dairy cattle, swine, and sheep. Units of study include nutrition, genetics, reproduction, breed identification, disease prevention, parasitology, facility maintenance, health care, and quality product production. Students enrolled in this course will have a better understanding of the meat industry and management practices utilized in the livestock industry.

Prerequisite: Small Animal Science

Credit: 0.5 This course will be offered in 2022-2023 and thereafter every other year

Vet Studies & Small Animal Care ES (Equivalent Science)

A basic understanding of small animal breeds and anatomy is required for this course. The course includes units of study on animal handling and restraint, veterinary terminology, anatomical and physiological systems, clinical exams, hospital procedures, parasitology, diseases, posology, laboratory techniques, and office management. Students will be introduced to each of these areas to emphasize the many skills required for employability in a veterinary career. Students interested in veterinarian, vet. tech., or research animal technician careers should consider this class.

Prerequisite: Small Animal Science

Credit: 0.5

ART COURSES

Art Course Offerings							
Courses	Course Length	Credit	Fee	9	10	11	12
Art 1	1 Semester	0.5	\$10.00	X	X	X	X
Ceramics 1	1 Semester	0.5	\$20.00	X	X	X	X
Photo 1	1 Semester	0.5	\$20.00	X	X	X	X
Ceramics 2	1 Semester	0.5	\$20.00		X	X	X
Drawing	1 Semester	0.5	\$10.00		X	X	X
Painting	1 Semester	0.5	\$10.00		X	X	X
Photo 2	1 Semester	0.5	\$20.00		X	X	X
Film Appreciation	1 Semester	0.5	0			X	X
Independent Studio	1 Semester	0.5	\$10.00			X	X

Fees listed above are for the 2021-2022 school year. They are subject to change for 2022-2023 school year.

Art 1

This foundation course covers a variety of art making techniques such as drawing, painting, sculpting and printmaking while using and learning about many different materials. Exploration of art movements, artist styles and works of art closely related to the Art Elements will be a mainstay. The Art Elements are the foundation of all works of art and help students understand these works, analyze, problem-solve and practice. The activities taught and knowledge gained will instill these foundations before students move on to advanced level art courses.

Credit: 0.5

Ceramics 1

Students will explore different hand building techniques such as pinching, slab building, coiling, molding and the beginning levels of wheel throwing. We will also explore decorating techniques, and the aesthetics of pottery and ceramics. The history of ceramics, ceramic artists and famous works of art will be researched throughout the course.

Credit: 0.5

Photo 1

Students will learn the basic concepts of digital photography, such as how the camera works, depth of field, shutter speed, lighting, composition, color balancing and building the perfect shot. Students will be introduced to Adobe Photoshop and Adobe Lightroom, and learn the basic aesthetics of creating and altering an image by layering and other actions. Students will also learn about the history of photography, various photographers and their work.

Prerequisite: Art 1

Credit: 0.5

Ceramics 2

Students will continue their hand building skills, and start to create an advanced level of work. Students will also further practices in wheel throwing and have the opportunity to create utilitarian objects such as cylinders (cup), bowls, pitchers, plates, and tea pots, if they are willing to work hard.

Prerequisite: Ceramics 1 (Must have earned a B- or higher)

Credit: 0.5

Drawing

This course will concentrate on techniques and exercises that aid in drawing realistically what one sees. Learning to use and experiment with a variety of media (pencil, chalk, charcoal, ink, wash, etc.) will constitute an important part of this introductory, fast-paced drawing experience. One hasn't really seen something until he/she attempts to draw it accurately!

Prerequisite: Art 1 (Must have earned a B- or better)

Credit: 0.5

Painting

Students will explore painting techniques and creative solutions to creating well-crafted, thoughtful works of art. Color theory and relationships will be taught and practiced throughout the semester using acrylic and water-color paints.

Prerequisite: Art 1 (Must have earned a B- or better)

Credit: 0.5

Photo 2

Students will extend their photo practices and knowledge through further exploration and advanced projects. Students will have the opportunity to learn darkroom techniques, as well as digital media and Adobe programming. This is for students who had a successful experience in Photo I to enhance their skills, and develop a higher level of artwork.

Prerequisite: Art 1 & Photo 1 (Must have earned a B- or better in Art 1, and a B or better in Photo 1)

Credit: 0.5

Film Appreciation

If you have a strong interest in film, are a creative thinker, have a talent in writing, and like research-based learning....Film Appreciation would be a great class for you! We start by learning about the history and inventions that contributed to the evolution of cinema over the years. We also learn about the technical roles that go into film production, the rating system, film genre, recording equipment, graphics, costume and makeup design, set design, film topics and concepts. We watch films connected to each class unit in the auditorium, discuss the film and have an assignment based on the movie and information we learned about in the unit.

Prerequisite: Grade 11 or 12

Credit: 0.5

Independent Studio

This class is meant to give advanced artists the freedom to expand their learnings and experiences from their prior studio courses.

- Students will be able to develop and establish themselves as artists.
- Students will be more innovative in designing their curriculum.
- Students will be able to work with other students at their level and help one another develop their work.
- Students will be able to use preferred mediums- clay, photography, drawing, painting, printing, sculpting, etc.
- Students will create art journals and blogs.
- Students will study art history and art practices more in depth.

Prerequisite: Art 1, Ceramics 1, Photo 1, Painting and Drawing (Must have earned A- or better)

Credit: 0.5

BUSINESS & INFORMATION TECHNOLOGY EDUCATION

Keyboarding and Online Tools

Keyboarding and Online Tools is the perfect opportunity for students who would like to increase their keyboarding speed and learn about the many online applications available to modify pictures, create videos, and present online. Students will also learn about available Google Applications for Education and will be introduced to MS Office software like Word, Excel and PowerPoint. An emphasis on keyboarding technique and the proper “touch method” (no looking at fingers, correct finger placement) will be reinforced daily. This course will may be offered every other year.

Credit: 0.5 This course will be offered in 2022-2023 and thereafter every other year

Exploring Computer Science

This introductory course starts by defining computing and learning the basic parts of a computer. Students will also learn how to systematically solve hardware and software problems. Most of the course is spent learning a variety of programming languages and using that knowledge to code video games and animations. This course may be offered every other year and prepares a student for AP Computer Science Principles.

Credit: 0.5 This course will be offered in 2021-2022 and thereafter every other year.

AP Computer Science Principles

This year long Advanced Placement course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. Whether it's 3-D animation, engineering, music, app development, medicine, visual design, robotics, or political analysis, computer science is the engine that powers the technology, productivity, and innovation that drive the world. Students will be coding in a variety of languages based on current trends.

Prerequisite: Exploring Computer Science or consent of instructor and Math 3

Credit: 1.0 This course will be offered in 2022-2023 and thereafter every other year

Computer Applications-MS Office Suite Certification

Students at all levels of computer proficiency will be challenged in Computer Applications. The class will provide students with a workable knowledge of the Microsoft Office Suite of programs. Students completing Computer Applications will have the opportunity to earn the Microsoft Office Suite certification. This course will be offered every other year.

Prerequisite: Keyboarding and Online Tools or consent of instructor

Credit: 1.0 This course will be offered in 2021-2022 and thereafter every other year

Business Concepts

This course is designed to introduce students to a variety of business concepts. Topics will include economics, marketing, international business, banking and finance, and business management.

Credit: 0.5

College and Career Readiness

This course provides a challenging adventure in learning and self-discovery to help learners prepare for college and/or career. The learner will develop self-awareness, build relationships, and be empowered to make effective choices in college & career decisions. A wide variety of skills will be applied to promote success in high school and readiness for college/career. Students will learn how to create resumes, cover letters, and other professional documents. In addition, students develop interviewing skills through a variety of scenarios.

Reserved for 11th and 12th graders

Credit: 0.5

Sports and Entertainment Marketing

This course is designed to develop a thorough understanding of the marketing concepts and theories that apply to sports and entertainment. This course is based on the business and marketing core that includes

communication skills, distribution, marketing information management, pricing, products/service management, promotion, selling, operations, strategic management, human resource management, and the economic impact and considerations involved in the sports and entertainment marketing industries.

Prerequisite: Business Concepts or consent of instructor

Credit: 0.5

Accounting

This course covers the complete accounting cycle as it relates to keeping records of personal and business transactions for tax purposes. It is recommended for both vocational and college-bound students and is highly recommended for Business Concepts students and students interested in a career in computers or data processing. Computerized accounting is introduced in this class.

Credit: 1.0

WORLD LANGUAGE

World Language Department Course Offerings						
Courses	Course Length	Credit	9	10	11	12
Spanish 1	1 Year	1	X	X	X	X
Spanish 2	1 Year	1	X	X	X	X
*Spanish 3	1 Year	1		X	X	X
*Spanish 4	1 Year	1		X	X	X
*Spanish 5	1 Year	1			X	X
*Spanish Language Arts For Heritage Speakers	1 Year	1	X	X	X	X

Spanish is a language arts course with its emphasis on communication through reading, listening, speaking, and writing; grammar and vocabulary, and Spanish-speaking cultures in general. Spanish is the second most spoken in the United States. Any student who fails or does not complete the first ½ credit of a one-credit Spanish course is not allowed to take the second ½ credit until s/he retakes and passes the first. In order to build skills, any Spanish course may be repeated for no credit. If a student has a B or better at any level, s/he may not repeat a course. UW-Madison, as well as some private and out-of-state colleges, require two years of a single foreign language for admission. It is recommended that you check with your enrolling university/college to see entrance requirements regarding language credits.

Spanish 1

This course covers the fundamental principles of Spanish, through grammar, idiomatic expressions, vocabulary and spelling. It provides a basic knowledge of the Spanish language and has a cultural focus on Spain at the HS and Mexico and Spain at the MS.

Prerequisite: C or better in English 8 or 9

Credit: 1.0

Spanish 2

This course continues the students' mastery of Spanish grammar and vocabulary, along with communication skills. It covers the culture of Spanish-speaking countries found in South America.

Prerequisite: Students must have B- or better to go onto the next level. Applies to those coming from MS 8th grade Spanish 1, and those who took Spanish 1 in the HS.

Credit: 1.0

***Spanish 3**

This course is designed to improve language usage in a practical manner, by means of group conversations, reading and writing. The emphasis is on Spain's culture, through classical literature.

Prerequisite: Students need to maintain a C average in both semesters of Spanish 2 to move on.

Credit: 1.0

***Spanish 4**

This course is designed to strengthen communication skills (reading, listening, speaking, writing) and improve language usage by reviewing concepts taught in Spanish 1-3 and to build onto the grammar with more details. The class is predominantly taught in Spanish. The cultural focus will be on culture and current events from countries found in Central America and the Caribbean.

Prerequisite: Students need to maintain a C average in both semesters of Spanish 3 to move on.

Credit: 1.0

***Spanish 5**

This is a course for advanced Spanish students to help prepare them for future Spanish studies. Students will refine their listening comprehension, reading comprehension, and their writing and speaking skills through the exploration of contemporary cultural and literary topics from all Spanish speaking countries.

Students will develop their skills in Spanish, toward a deeper understanding and appreciation of cultural differences.

Prerequisite: B or better Spanish 4

Credit: 1.0

Spanish Language Arts for Heritage Speakers (SLA)

This course is designed to help heritage Spanish/English speakers develop both language and cultural bi-literacy in an environment where students' background knowledge and personal experiences are valued and utilized. Students will refine their communication skills with project based activities based on themes and individual goals.

Prerequisites: Advanced fluency in oral Spanish and desire to become bi-literate.

This course may be repeated.

Credit: 1.0

MUSIC

Music Department Course Offerings						
Courses	Course Length	Credit	9	10	11	12
Symphonic Band	1 Year	1	X	X		
Wind Ensemble	1 Year	1			X	X
Chorale	1 Year	1	X	X	X	X
Treble Choir	1 Year	1	X	X	X	X
Chamber Choir	1 Year	1	X	X	X	X
Independent Study Music Theory	1 Year	1				X

The Lodi High School Music Department empowers students to create, appreciate, and perform music in order to foster a life-long passion for the arts. Course offerings include multiple levels of band and choir, as well as a course in advanced music theory/college audition prep. With 5 curricular ensembles, every student can participate in music, regardless of their prior experience or future goals. Classes are sequential and are assigned by teacher recommendation or by audition. In addition to the many exciting programs offered during the school day, the LHS Music Department offers several extra-curricular opportunities outside of class: Jazz Band, Vocal Jazz, pop a cappella groups, WSMA Solo & Ensemble music festivals, the Fall Musical, etc). Please note that with the exception of the Musical, these groups all require participation in a regular school day ensemble. LHS music students also have an opportunity to travel every other year; our students have performed in New York City, New Orleans, Memphis, Nashville, and Disney World! Department Learning Targets adhere to national and state curricular standards, with a focus on individual performance skills, music literacy, and ensemble work.

Symphonic Band

Symphonic Band is a year-long class, open to all students grades 9-12. No prior band experience is required, but students should be motivated to play and perform. Learning targets will focus on technique, music theory, and music history through traditional and contemporary concert band and marching/pep band performance at a level appropriate for the student's instrument and experience. Students are required to perform in all scheduled performances which include three evening concerts throughout the year (December, March, and May), several marching band performances at evening football games, and several performances at pep band events outside of the school day.

Prerequisites: Rented or owned instrument.

Fees: Rental of school owned instruments (oboe, bassoon, French horn, some saxophones, baritone, tuba, percussion) \$50 for percussion, \$60 for brass/wind per year. Should the cost of any rental be a potential barrier to a student's participation, please let the instructor or counselor know, and a solution will be worked out.

Credit: 1.0

Wind Ensemble

Wind Ensemble is a year-long class, open to students in grades 11 and 12, or by consent of the instructor. Learning targets will focus on technique, music theory, and music history through traditional and contemporary concert band and marching/pep band performance at a level appropriate for the student's instrument and experience. Students are required to perform in all scheduled performances which include three evening concerts throughout the year (December, March, and May), several marching band performances at evening football games, and several performances at pep band events outside of the school day.

Prerequisites: Consent of instructor, plus rented or owned instrument.

Fees: Rental of school owned instruments (oboe, bassoon, French horn, some saxophones, baritone, tuba, percussion) \$50 for percussion, \$60 for brass/wind per year. Should the cost of any rental be a potential barrier to a student's participation, please let the instructor or counselor know, and a solution will be worked out.

Credit: 1.0

Chorale

Chorale is a year-long choir class, open to all students grades 9-12. No prior choral experience is required, but students should be motivated to sing, perform, and have a desire to learn more about their voice. Learning targets for this course emphasize the basics of vocal technique, sight-reading, music theory, and music history. Music chosen for study / performance will include sacred and secular literature from a wide variety of cultures, styles, and time periods. Students are expected to perform as a member of Chorale in three evening concerts throughout the year (December, March, and May) as a major part of their grade.

Credit: 1.0

Treble Choir

Treble Choir is a year-long intermediate level class, open to students grades 9-12, with voices in the soprano or alto register. Learning targets for this course focus on developing a deeper understanding of vocal technique, music theory, and music history. Music chosen for study / performance will include sacred and secular literature from a wide variety of cultures, styles, and times periods. Students are expected to perform as a member of Treble Choir in three evening concerts throughout the year (December, March, and May), and are encouraged to participate in additional performance opportunities as they arise.

Prerequisite: Consent of instructor

Credit: 1.0

Chamber Choir

Chamber Choir is a year-long upper-level class, offered to all students grades 9-12, who have passed an audition with the instructor. Learning targets for this course are aimed at students determined to progress technically and musically. Students are expected to perform as a member of Chamber Choir in three evening concerts throughout the year (December, March, and May), and are encouraged to participate in additional performance opportunities as they arise.

Music chosen for study / performance will include sacred and secular literature from a wide variety of cultures, styles, and time periods.

Prerequisite: Audition and consent of instructor

Credit: 1.0

Independent Study Music Theory

Independent Study Music Theory is a year-long advanced level class, open to Seniors who plan to major in Music after high school. The goal of this course is twofold: to help prepare students for their School of Music audition (which occurs during Senior year), and to lead students through a study of advanced music theory topics. Similar to an AP Music Theory course, the foundation of knowledge presented will provide students the opportunity to develop, practice, and master advanced music theory skills essential to success in their college music theory course work.

Prerequisite: Consent of instructor

Credit: 1.0

PHYSICAL EDUCATION AND HEALTH

Physical Education & Health Department Course Offerings						
Courses	Course Length	Credit	9	10	11	12
PE 9	1 Semester	0.5	X			
^Strength Training & Conditioning	1 Semester	0.5	X	X	X	X
^Outdoor Activity	1 Semester	0.5	X	X	X	X
^Individual PE	1 Semester	0.5	X	X	X	X
^Fitness for Life	1 Semester	0.5	X	X	X	X
^Team Sports	1 Semester	0.5	X	X	X	X
^Lifeguard/WSI	1 Semester	0.5		X	X	X
Health	1 Semester	0.5	X	X		
+Healthy Lifestyles	1 Semester	0.5		X	X	X
^Unified PE	1 Semester	0.5		X	X	X

^ = must pass PE 9 first + = Must pass Health first

The Physical Education and Health Department of Lodi High School have developed a curriculum that promotes a variety of lifetime activities to meet the needs of the entire student body. **Students must take physical education in three different years of high school. All 9th graders must pass PE 9 before they are allowed to advance to any other course.**

To fulfill the remaining one credit required for graduation, students must take two DIFFERENT courses. All courses will include a cardio section, skills tests, written tests, Fitness Gram tests and heart rate monitors. **Students may repeat courses as electives. Students may take a maximum of two PE classes per year.**

Physical Education 9

*Can include any activity from the courses listed below.

*All 9th graders must pass PE 9 before they are allowed to advance to any other course

*****THE COURSES MAY NOT COVER ALL THE ACTIVITIES LISTED*****

Strength Training and Conditioning

Weightlifting
Agility
Cardio fitness
Core training
Plyometric training
Run/Sprint

Individual PE

Table tennis
Frisbee golf
Cardio/Fitness Activities
Badminton
Swim/Scuba
Golf
Tennis
Bowling
Pickleball
Biking

*** Some activities may have off-campus fees**

Team Sports

Basketball
Football
Softball
Lacrosse
Ultimate Frisbee
Volleyball
Swim
Speedball/Soccer
Mat Ball
Floor Hockey

Fitness for Life

Yoga
Kickboxing
Strength and conditioning workouts
Aerobics
Core training
Swim/Pool workouts
Boot camp activities
Snowshoeing

***Some activities may have off-campus fees**

Outdoor Activity

Snowshoe
Curling
Archery
Cross-Country ski
Snowboard/downhill ski
Ice skating
Broomball
Swim
Hike/camp/orienteering
Canoe
Fishing

***Some activities may have off-campus fees**

***Dress for the weather - Must have boots, snow pants, gloves, hat and jacket.**

Unified PE

Unified Physical Education is a unique opportunity for students of varying ability levels and backgrounds to come together on equal terms through ongoing fitness, sports, leadership and wellness activities. Students with and without disabilities will participate in units such as biking, team building, swimming, basketball, fitness/weightlifting, golf and more! Assessments will include fitnessgram tests, weekly summaries, group projects, and overall participation.

Prerequisite: Must pass PE 9 and must apply to be in class

Credit: 0.5

Adaptive Physical Education

The adaptive PE section offered is for those students who cannot safely or successfully engage in unrestricted participation in the vigorous activities of the general PE program. This program includes a variety of developmental activities, games, sports and rhythms, suited to the capacities and limitations of students with disabilities.

Prerequisite: Referral or consent of PE department

Credit: 0.5

Health

This course is offered to help students acquire a working knowledge and understanding of current health issues that are pertinent in today's society. Some of the areas studied are what is health, consumer health, environmental health, nutrition, family life education, drug and alcohol use and abuse, mental health, and CPR/AED. Small discussion groups, outside resources, projects/activities, and presentations by community members are components of the various units.

Credit: 0.5

Healthy Lifestyles

In this class students will explore child development through in class discussions, activities, and mentoring projects. Students will analyze the aspects of mental and emotional health and apply the principles of health and wellness to their own life.

Prerequisite: Must pass Health first

Credit: 0.5

Lifeguard Training / Water Safety Instruction Course

Cost \$90 includes: American Red Cross certification cards

Max size limit 14

Credit: 0.5

Students will have the opportunity to become certified through the American Red Cross in: Lifeguard Training, Water Safety Instructor, CPR, AED, and First Aid.

Course requirements:

1. Must be 16 years old by the end of the course (End of January).
2. Swim 300 yards continuously.
3. Tread water for 2 minutes using only the legs.
4. Swim front crawl, back crawl, breaststroke, elementary backstroke, and sidestroke 25 yards.
5. Swim butterfly 15 yards.
6. Maintain position on back for 1 minute in deep water (floating or sculling).
7. Complete a timed event within 1 minute 40 seconds.
 - Start in water, swim 20 yards.
 - Surface dive to a depth of 7-10 feet to retrieve a 10 pound object.
 - Return to the surface with a 10 pound object and swim 20 yard back to starting point with both hands on the object. Face is out of the water or near the surface so they can breathe.
 - Get out of the water without using the steps or ladder.

LIFE SKILLS

Life Skills Course Offerings						
Courses	Course Length	Credit	9	10	11	12
Financial Literacy	1 Semester	0.5			X	X
Project-Based Learning	1 Semester	0.5			X	X
*Youth Apprenticeship	1 Year	1			X	X

Financial Literacy

This course involves the study of the consumer in the marketplace. Emphasis is placed on such things as personal finance including managing income, balancing a checking account and establishing a positive credit rating. In addition, the course will focus on consumer law related issues including personal injury lawsuits, contracts and debtor protection.

Credit: 0.5

Project-Based Learning

Students are placed in this course if they are selected to participate in an exchange program to a sister school in Thailand or Germany. Students get to know travel companions and prepare for the trip and the stay. Upon return, students have time to work on any missing assignments from other courses and create presentations that showcase their experiences while on the trip.

Prerequisite: Approval to take part in the exchange program

Credit: 0.5

Youth Apprenticeship

Youth Apprenticeship is a program designed to provide 11th and 12th grade students with the opportunity to prepare for a career while still in school. While in the program, students will take high school classes required to meet graduation requirements. They will also have one class each semester in the occupational area of their Youth Apprenticeship program. This program requires a signed contract. Categories to include: Agriculture, Food and Natural Resources, Architecture and Construction, Health Services, Hospitality, Lodging, and Tourism, Finance, Information Technology, Manufacturing, Science, Technology, Engineering, and Math, Transportation, Distribution, and Logistics.

Prerequisite: Consent of Instructor

Credit: 0.5 each time course is taken

STEAM EDUCATION

Students in STEAM Education will use skills from science, technology, engineering, art, and mathematics to design and create projects within our Smart Lab. A Smart Lab is a fully equipped STEAM Education environment designed for creating and inventing. Students will engage in robotics, 3D printing, software engineering, digital animation, circuitry, digital media editing, engineering, and much, much more. The options for inventing and creating within a Smart Lab are limitless. We offer three levels of STEAM Education. STEAM 1 and 2 are designed to provide a broad overview of the Smart Lab and what it has to offer. STEAM Project Development is for students wanting to focus on specific projects for an entire semester.

STEAM 1

In this introductory course, students interested in Science, Technology, Engineering, Art, and Math will explore and apply a wide range of technologies and softwares through project-based learning experiences. Students develop and practice real-world skills such as problem-solving, collaboration, project-planning and communication.

Systems of technology explored include (1) Mechanics and Structures, (2) Computer Graphics, (3) Scientific Data and Analysis, (4) Digital Communications, (5) Alternative and Renewable Energy, (6) Robotics and Control Technology, (7) Circuitry, and (8) Software Engineering.

This course is required for graduation

Credit: 0.5

STEAM 2

In this continuation course, students who have successfully completed STEAM 1 will continue to explore and apply a wide range of 21st Century Skills through project-based learning experiences. Students develop and practice real-world skills such as problem-solving, collaboration, project-planning and communication. Systems of technology explored include (1) Mechanics and Structures, (2) Computer Graphics, (3) Scientific Data and Analysis, (4) Digital Communications, (5) Alternative and Renewable Energy, (6) Robotics and Control Technology, (7) Circuitry, and (8) Software Engineering.

Prerequisite: STEAM 1

Credit: 0.5

STEAM Project Development

In this advanced course, students interested in Science, Technology, Engineering, Art, and Math will combine a wide range of technologies; projects will be more substantial and in depth. Students will be expected to maintain an ePortfolio for both daily work and final presentation, and a project plan for each project.

Prerequisite: STEAM 1 and STEAM 2

Credit: 0.5

SPECIAL EDUCATION

The School District of Lodi will provide all students who have special educational needs with experiences that increase proficiency in social, academic and vocational domains. The needs of individual students will be determined as the result of ongoing academic, vocational, communication, physical, behavioral and social assessments. Each student's program, including related and supportive services will be specified in the Individual Education Program (IEP) and will be updated annually. Educational experiences will be offered in the least restrictive environment by supporting students in regular education classes and instructing students in special education classes. Students within the Special Education Program will be provided with sequential and systematic instruction to prepare them with necessary skills to function within the school, home and community. All special education programs will be provided in accordance with federal rules and regulations, Department of Public Instruction standards, Board of Education policies and administrative procedures.

Prerequisite: Referral, Placement and IEP

TECHNOLOGY EDUCATION

Technology Education Department Course Offerings						
Courses	Course Length	Credit	9	10	11	12
Home Maintenance	1 Semester	0.5	X	X		
Manufacturing 1	1 Semester	0.5	X	X		
Power & Energy	1 Semester	0.5	X	X		
FabLaIntro tob	1 Semester	0.5		X	X	X
*Manufacturing 2	1 Semester	0.5		X	X	X
Building Construction	1 Semester	0.5			X	X
CAD	1 Semester	0.5			X	X
*Advanced CAD	1 Semester	0.5			X	X
Small Engines	1 Semester	0.5			X	X

All Technology Education classes are designed to develop safe employability skills in architecture, construction, design, energy, engineering, manufacturing, quality assurance, and transportation systems.

Home Maintenance

This course is offered to students to provide an introduction to the common repairs that arise from home ownership. These common repairs include drywall, electrical, plumbing, tile, concrete, window replacement, screen repair, door installation, along with some basic skills in the woodworking area. The home building unit will give the student an overview of house construction, floor plan layout, interior design techniques, and estimating house repairs/renovations.

Credit: 0.5

Manufacturing 1

This course introduces students to the fundamentals of manufacturing technologies. Students will be introduced to lab safety, print reading, measuring techniques, basic drafting/design,

and the use of basic tools/equipment used in the manufacturing environment. Students will gain experience in technical processes associated with metal, wood, and composites. Students must pay the cost of materials for any individual projects.

Credit: 0.5

Power & Energy

This course introduces students to the forms of energy and how it is transformed into power. Areas introduced during this course are: solar, mechanical, chemical, nuclear, and electrical energy; power transfer through gears and belts, hydraulics, and pneumatics; and types of engines used for transportation vehicles.

Credit: 0.5

Introduction to FabLab

In this course, students will use state of the art equipment to engineer and fabricate projects. Students will develop problem-solving and labor skills that are very valuable to future employers. In Intro to FabLab, students will complete projects directly related to computer controlled fabrication technologies such as: 3D printing, laser engraving/cutting, CNC Milling, CNC Plasma cutting, robot programming, CAD 3D Modeling, electronic circuit building, plastic fabrication, and vinyl cutting. Students will examine the many careers related to FabLab technologies such as engineering, science, mathematics, art, graphic design, electronics, and entrepreneurship.

Prerequisite: STEAM 1

Credit: 0.5

Manufacturing 2

In this course, students will further study the many materials and processes used in the manufacturing industry. Students will have the opportunity to demonstrate and refine skills acquired in welding, woodworking, and metal fabrication. Students will complete advanced individual projects in the areas of woods, metals, and plastics. Students must pay the cost of materials for any individual projects.

Credit: 0.5

Building Construction

This course will introduce students to basic building construction techniques and concepts. In the area of building construction, students learn to safely use the basic tools and machines used in the construction industry. Students will learn about mixing, pouring and finishing concrete; will learn about basic masonry tools, equipment, and techniques; will build a deck, stud walls, rafters/trusses, install doors and windows, shingle a roof and do the necessary finish work needed to complete a building structure / model. Students will also learn to read basic blueprints, estimate, order materials for a building and determine the costs.

Credit: 0.5

CAD

In this course, students will be introduced to the use of simple and complex graphic tools used to communicate and understand ideas and concepts found in the areas of architecture, manufacturing, engineering, science and mathematics. Topics include: sketching, reading blueprints, measuring scales, computer-aided design, orthographic projection, dimensioning, and 3-D Solid Modeling.

Credit: 0.5

Advanced CAD

This course covers the 2D/3D mechanical and architectural design process through the use of AutoCAD, Inventor, Sketchup, and other computer software. Students will complete advanced CAD drawings, renderings, and working 3D models for a display. Students will also prepare and hand in a portfolio of all their drawings and models for evaluation. Students will also facilitate the FabLab by fulfilling job requests from our community, school district, and businesses.

Prerequisite: CAD

Credit: 0.5

Small Engines

This course covers the operation of small two and four cycle internal combustion engines. Some areas covered in this course will include: internal combustion engines, proper care and maintenance, and rebuilding procedures for small engines. We will study and work with appropriate tools, materials and equipment, along with fuel, ignition, mechanical, and lubrication systems related to those engines. The application of those engines to certain devices and/or vehicles will also be discussed.

Credit: 0.5

STANDARDIZED TESTING INFORMATION

Aspire

9th and 10th grade students take the state-mandated Aspire test each spring, which evaluates students' college readiness and also provides information to help students and their parents focus on career preparation and improving academic achievement.

ACT

The ACT may be used as a factor for admission depending upon the school. 11th grade students take a state-mandated ACT in late February/early March. There is no cost to students for this test.

Students may choose to take the ACT multiple times. The test is offered nationally several times during the year (see dates below). Students register for national test dates by going to www.act.org and providing the information requested. 10th grade students take a practice ACT at LHS on the same date (late February/early March) that the 11th grade students take the state-mandated ACT.

2021-2022 ACT National Test Dates	
Projected ACT Test Dates & Registration Deadlines	
Test Date	Registration Deadline
September 11, 2021	August 6, 2021
October 23, 2021	September 19, 2021
December 11, 2021	November 5, 2021
February 5, 2022	January 7, 2022
April 9, 2022	March 4, 2022
June 11, 2022	May 6, 2022
July 16, 2022	June 10, 2022

PSAT

The PSAT is offered in October to interested 11th grade students. This test is used as the Preliminary National Merit Scholarship Qualifying Test as well as practice for the SAT. Approximately 50,000 students receive recognition out of the approximately 1.6 million students who take the test each year. Generally, a student must score in the top 3% nationally to receive recognition. Approximately 7,500 students receive a scholarship.

SAT

Students should check the admission requirements of the schools to which they are interested in applying to find out whether or not the SAT is required. It is used more frequently by schools on the east and west coasts and is not necessary for many colleges in the Midwest.

POST-SECONDARY INFORMATION

WISCONSIN TECHNICAL COLLEGE SYSTEM

WTCS has 16 colleges and 49 campuses throughout the state. WTCS has a variety to meet the needs of most interested students. There are more than 400 career programs offered. No WTCS program requires more than two years of full-time study and many require less than a year. Courses are offered through a variety of delivery methods. More information about the Wisconsin Technical College System can be found online at www.wtcsystem.edu

TECHNICAL COLLEGE DEGREES

Associate Degrees

Two-year programs that combine technical skills with math, communications and social sciences.

One and Two-Year Technical Diplomas

Hands-on learning of occupational skills.

Short-Term Programs

Occupational programs of less than one year.

Liberal Arts Transfer Program

The first two years of a four-year baccalaureate college education. These credits readily transfer to four-year institutions. Students are guaranteed to be able to transfer to the UW System by earning a minimum of 64 credits in the Liberal Arts Transfer program and maintaining a 3.0 grade point average.

Advanced Technical Certificate

Students earn nine to 12 credits to receive a certificate that meets the needs of employers seeking highly skilled workers in business, health, and trade and industrial fields. At least six of these credits are in advanced content beyond the associate degree.

Apprentice-Related Instruction

Classroom training is provided for registered apprentices while they receive on-the-job training from their employer.

UNIVERSITY OF WISCONSIN SYSTEM

Applying For Admission

The University of Wisconsin System Application for Undergraduate Admission is a standard application form, which can be used to apply for admission to any UW System campus. The application can be found online at apply.wisconsin.edu. Applicants for admission to a UW System institution are required to submit official high school transcripts and official college or university transcripts from all institutions previously attended.

When to Apply

The UW System Application starts accepting applications on August 1st each year. Application priority dates and deadlines vary from campus to campus, and sometimes among different programs at one campus. Students are encouraged to apply early in the fall of their senior year.

Holistic Admission Process

The UW System uses a holistic admission process, meaning that they are using a number of factors in their decision making process. Admission factors may include grade point average, class rank, standardized test scores (ACT), rigor of classes (particularly the 12th grade), extracurricular activities, community service, work experience, and a personal statement. UW-Madison also requires students to submit one letter of recommendation from an academic teacher along with their application. Admission requirements vary from one school to another. Students should check the specific admission guidelines for the college(s) to which they plan to apply. More information about the UW System can be found at www.uwhelp.wisconsin.edu.

College-level work requires strong reading, writing, and math skills, so taking high school courses that help develop those skills will be beneficial. Taking foreign language courses is also recommended and is required for admission to some colleges and universities.

The following required high school courses are the minimum that you'll need to enter a UW System campus. Some campuses require more.

- 4 years of English, including composition and literature.
- 3 years of mathematics, including Integrated Math 1, 2, and 3
- 3 years of natural science, including one or more units of laboratory science such as biology, chemistry, or physics. We strongly recommend courses with a solid laboratory component, and some campuses even require them.
- 3 years of social science, including history.
- 4 years of electives from the above areas, foreign language, fine arts, computer science, or other areas.

We strongly advise taking at least 2 years of a single foreign language. UW-Madison requires at least 2 years.

FINANCIAL AID AND SCHOLARSHIPS

FAFSA

The Free Application for Federal Student Aid may be started beginning October 1st of senior year. The application deadlines for financial aid vary by school. More information about the FAFSA can be found at www.fafsa.ed.gov

Scholarships

Scholarship applications are often available throughout the senior year. Scholarship information can be found on the High School Counseling website.

SENIOR PRIVILEGES - Student Aide and Senior Release Information

Application for Student Aide

Students may only be a Student Aide during 12th grade for a maximum of 2 blocks. Students cannot have more than one (1) Student Aide per day. Applications can be found on the Counseling page under *Junior Conferences*. Students may start applying after their individual junior conferences with their counselor in April/May. A parent signature is still required even if the student is 18. Please print, fill out completely, and return applications to the counseling office. Applications are due by noon the last day of school, **NO EXCEPTIONS**.

To be eligible for the privilege of Student Aide, a student:

- Must have an academic course during the same term for which he/she is requesting to be a Student Aide
- Must be passing all courses during the term proceeding Student Aide
- May not drop any class with ten (10) or fewer students enrolled, **without exception**
- Teacher should be teaching the course for which you are acting as aide during the term and period you are taking it
- May be dropped (with an F) from the course *at any time* if you are not meeting the attendance or performance expectations

This is a pass/fail course only. No letter grade is given.
Credit: 0.5

Application for Senior Release

Senior Release period is allowed a maximum of 4 times per year (once per day for each semester) and is restricted to 1st Block or 4th Block. This is a time to demonstrate increased responsibility for oneself and positive time management. Senior Release Privilege means that a student is able to either arrive at the end of 1st Block or leave after 3rd Block. There is no staff supervision of this release time, rather the student (with the parent's consent, even for 18 year-olds) is allowed to leave campus and use the time as s/he chooses. If a student should choose to remain on campus to study or to access resources on a particular day, this must be approved by the administrative or counseling staff. (This is to keep track of students/others in the building in case of an emergency.) **STUDENTS MUST SIGN IN** (upon arrival after 1st block) or **SIGN OUT** (before leaving school after 3rd block).

Applications can be found on the Counseling page under Junior Conferences. Students may start applying after their individual junior conferences with their counselor in April/May. Please print, fill out completely, and return applications to the Counseling Office.

To be eligible for the privilege of Senior Release, a student:

- Must be passing all courses during term prior to requested Senior Release
- Must be on track for graduation
- Must have at least one academic course during the day of the privilege
- Must give written explanation of how this release period will be useful (Please see the Senior Release application form)

Approval for Senior Release is given by the principal. A student with discipline or attendance issues likely **will not** receive this privilege.

NOTE: If a student on Senior Release is found to be no longer meeting the above expectations, s/he will be required to be scheduled into classes for those periods.

College Readiness Standards — English

	Topic Development in Terms of Purpose and Focus	Organization, Unity, and Coherence	Word Choice in Terms of Style, Tone, Clarity, and Economy
13–15		Use conjunctive adverbs or phrases to show time relationships in simple narrative essays (e.g., <i>then, this time</i>)	Revise sentences to correct awkward and confusing arrangements of sentence elements Revise vague nouns and pronouns that create obvious logic problems
16–19	Identify the basic purpose or role of a specified phrase or sentence Delete a clause or sentence because it is obviously irrelevant to the essay	Select the most logical place to add a sentence in a paragraph	Delete obviously synonymous and wordy material in a sentence Revise expressions that deviate from the style of an essay
20–23	Identify the central idea or main topic of a straightforward piece of writing Determine relevancy when presented with a variety of sentence-level details	Use conjunctive adverbs or phrases to express straightforward logical relationships (e.g., <i>first, afterward, in response</i>) Decide the most logical place to add a sentence in an essay Add a sentence that introduces a simple paragraph	Delete redundant material when information is repeated in different parts of speech (e.g., “alarmingly startled”) Use the word or phrase most consistent with the style and tone of a fairly straightforward essay Determine the clearest and most logical conjunction to link clauses
24–27	Identify the focus of a simple essay, applying that knowledge to add a sentence that sharpens that focus or to determine if an essay has met a specified goal Delete material primarily because it disturbs the flow and development of the paragraph Add a sentence to accomplish a fairly straightforward purpose such as illustrating a given statement	Determine the need for conjunctive adverbs or phrases to create subtle logical connections between sentences (e.g., <i>therefore, however, in addition</i>) Rearrange the sentences in a fairly uncomplicated paragraph for the sake of logic Add a sentence to introduce or conclude the essay or to provide a transition between paragraphs when the essay is fairly straightforward	Revise a phrase that is redundant in terms of the meaning and logic of the entire sentence Identify and correct ambiguous pronoun references Use the word or phrase most appropriate in terms of the content of the sentence and tone of the essay
28–32*	Apply an awareness of the focus and purpose of a fairly involved essay to determine the rhetorical effect and suitability of an existing phrase or sentence, or to determine the need to delete plausible but irrelevant material Add a sentence to accomplish a subtle rhetorical purpose such as to emphasize, to add supporting detail, or to express meaning through connotation	Make sophisticated distinctions concerning the logical use of conjunctive adverbs or phrases, particularly when signaling a shift between paragraphs Rearrange sentences to improve the logic and coherence of a complex paragraph Add a sentence to introduce or conclude a fairly complex paragraph	Correct redundant material that involves sophisticated vocabulary and sounds acceptable as conversational English (e.g., “an aesthetic viewpoint” versus “the outlook of an aesthetic viewpoint”) Correct vague and wordy or clumsy and confusing writing containing sophisticated language
33–36†	Determine whether a complex essay has accomplished a specific purpose Add a phrase or sentence to accomplish a complex purpose, often expressed in terms of the main focus of the essay	Consider the need for introductory sentences or transitions, basing decisions on a thorough understanding of both the logic and rhetorical effect of the paragraph and essay	Delete redundant material that involves subtle concepts or that is redundant in terms of the paragraph as a whole

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College Readiness Standards — English (continued)

	Sentence Structure and Formation	Conventions of Usage	Conventions of Punctuation
13–15	Use conjunctions or punctuation to join simple clauses Revise shifts in verb tense between simple clauses in a sentence or between simple adjoining sentences	Solve such basic grammatical problems as how to form the past and past participle of irregular but commonly used verbs and how to form comparative and superlative adjectives	Delete commas that create basic sense problems (e.g., between verb and direct object)
16–19	Determine the need for punctuation and conjunctions to avoid awkward-sounding sentence fragments and fused sentences Decide the appropriate verb tense and voice by considering the meaning of the entire sentence	Solve such grammatical problems as whether to use an adverb or adjective form, how to ensure straightforward subject-verb and pronoun-antecedent agreement, and which preposition to use in simple contexts Recognize and use the appropriate word in frequently confused pairs such as <i>there</i> and <i>their</i> , <i>past</i> and <i>passed</i> , and <i>led</i> and <i>lead</i>	Provide appropriate punctuation in straightforward situations (e.g., items in a series) Delete commas that disturb the sentence flow (e.g., between modifier and modified element)
20–23	Recognize and correct marked disturbances of sentence flow and structure (e.g., participial phrase fragments, missing or incorrect relative pronouns, dangling or misplaced modifiers)	Use idiomatically appropriate prepositions, especially in combination with verbs (e.g., <i>long for</i> , <i>appeal to</i>) Ensure that a verb agrees with its subject when there is some text between the two	Use commas to set off simple parenthetical phrases Delete unnecessary commas when an incorrect reading of the sentence suggests a pause that should be punctuated (e.g., between verb and direct object clause)
24–27	Revise to avoid faulty placement of phrases and faulty coordination and subordination of clauses in sentences with subtle structural problems Maintain consistent verb tense and pronoun person on the basis of the preceding clause or sentence	Ensure that a pronoun agrees with its antecedent when the two occur in separate clauses or sentences Identify the correct past and past participle forms of irregular and infrequently used verbs and form present-perfect verbs by using <i>have</i> rather than <i>of</i>	Use punctuation to set off complex parenthetical phrases Recognize and delete unnecessary commas based on a careful reading of a complicated sentence (e.g., between the elements of a compound subject or compound verb joined by <i>and</i>) Use apostrophes to indicate simple possessive nouns Recognize inappropriate uses of colons and semicolons
28–32*	Use sentence-combining techniques, effectively avoiding problematic comma splices, run-on sentences, and sentence fragments, especially in sentences containing compound subjects or verbs Maintain a consistent and logical use of verb tense and pronoun person on the basis of information in the paragraph or essay as a whole	Correctly use reflexive pronouns, the possessive pronouns <i>its</i> and <i>your</i> , and the relative pronouns <i>who</i> and <i>whom</i> Ensure that a verb agrees with its subject in unusual situations (e.g., when the subject-verb order is inverted or when the subject is an indefinite pronoun)	Use commas to set off a nonessential/nonrestrictive appositive or clause Deal with multiple punctuation problems (e.g., compound sentences containing unnecessary commas and phrases that may or may not be parenthetical) Use an apostrophe to show possession, especially with irregular plural nouns Use a semicolon to indicate a relationship between closely related independent clauses
33–36†	Work comfortably with long sentences and complex clausal relationships within sentences, avoiding weak conjunctions between independent clauses and maintaining parallel structure between clauses	Provide idiomatically and contextually appropriate prepositions following verbs in situations involving sophisticated language or ideas Ensure that a verb agrees with its subject when a phrase or clause between the two suggests a different number for the verb	Use a colon to introduce an example or an elaboration

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College Readiness Standards — Mathematics

	Basic Operations & Applications	Probability, Statistics, & Data Analysis	Numbers: Concepts & Properties	Expressions, Equations, & Inequalities
13–15	Perform one-operation computation with whole numbers and decimals Solve problems in one or two steps using whole numbers Perform common conversions (e.g., inches to feet or hours to minutes)	Calculate the average of a list of positive whole numbers Perform a single computation using information from a table or chart	Recognize equivalent fractions and fractions in lowest terms	Exhibit knowledge of basic expressions (e.g., identify an expression for a total as $b + g$) Solve equations in the form $x + a = b$, where a and b are whole numbers or decimals
16–19	Solve routine one-step arithmetic problems (using whole numbers, fractions, and decimals) such as single-step percent Solve some routine two-step arithmetic problems	Calculate the average of a list of numbers Calculate the average, given the number of data values and the sum of the data values Read tables and graphs Perform computations on data from tables and graphs Use the relationship between the probability of an event and the probability of its complement	Recognize one-digit factors of a number Identify a digit's place value	Substitute whole numbers for unknown quantities to evaluate expressions Solve one-step equations having integer or decimal answers Combine like terms (e.g., $2x + 5x$)
20–23	Solve routine two-step or three-step arithmetic problems involving concepts such as rate and proportion, tax added, percentage off, and computing with a given average	Calculate the missing data value, given the average and all data values but one Translate from one representation of data to another (e.g., a bar graph to a circle graph) Determine the probability of a simple event Exhibit knowledge of simple counting techniques*	Exhibit knowledge of elementary number concepts including rounding, the ordering of decimals, pattern identification, absolute value, primes, and greatest common factor	Evaluate algebraic expressions by substituting integers for unknown quantities Add and subtract simple algebraic expressions Solve routine first-degree equations Perform straightforward word-to-symbol translations Multiply two binomials*
24–27	Solve multistep arithmetic problems that involve planning or converting units of measure (e.g., feet per second to miles per hour)	Calculate the average, given the frequency counts of all the data values Manipulate data from tables and graphs Compute straightforward probabilities for common situations Use Venn diagrams in counting*	Find and use the least common multiple Order fractions Work with numerical factors Work with scientific notation Work with squares and square roots of numbers Work problems involving positive integer exponents* Work with cubes and cube roots of numbers* Determine when an expression is undefined* Exhibit some knowledge of the complex numbers†	Solve real-world problems using first-degree equations Write expressions, equations, or inequalities with a single variable for common pre-algebra settings (e.g., rate and distance problems and problems that can be solved by using proportions) Identify solutions to simple quadratic equations Add, subtract, and multiply polynomials* Factor simple quadratics (e.g., the difference of squares and perfect square trinomials)* Solve first-degree inequalities that do not require reversing the inequality sign*
28–32 *	Solve word problems containing several rates, proportions, or percentages	Calculate or use a weighted average Interpret and use information from figures, tables, and graphs Apply counting techniques Compute a probability when the event and/or sample space are not given or obvious	Apply number properties involving prime factorization Apply number properties involving even/odd numbers and factors/multiples Apply number properties involving positive/negative numbers Apply rules of exponents Multiply two complex numbers†	Manipulate expressions and equations Write expressions, equations, and inequalities for common algebra settings Solve linear inequalities that require reversing the inequality sign Solve absolute value equations Solve quadratic equations Find solutions to systems of linear equations
33–36 †	Solve complex arithmetic problems involving percent of increase or decrease and problems requiring integration of several concepts from pre-algebra and/or pre-geometry (e.g., comparing percentages or averages, using several ratios, and finding ratios in geometry settings)	Distinguish between mean, median, and mode for a list of numbers Analyze and draw conclusions based on information from figures, tables, and graphs Exhibit knowledge of conditional and joint probability	Draw conclusions based on number concepts, algebraic properties, and/or relationships between expressions and numbers Exhibit knowledge of logarithms and geometric sequences Apply properties of complex numbers	Write expressions that require planning and/or manipulating to accurately model a situation Write equations and inequalities that require planning, manipulating, and/or solving Solve simple absolute value inequalities

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College Readiness Standards — Mathematics (continued)

	Graphical Representations	Properties of Plane Figures	Measurement	Functions†
13–15	Identify the location of a point with a positive coordinate on the number line		Estimate or calculate the length of a line segment based on other lengths given on a geometric figure	
16–19	Locate points on the number line and in the first quadrant	Exhibit some knowledge of the angles associated with parallel lines	Compute the perimeter of polygons when all side lengths are given Compute the area of rectangles when whole number dimensions are given	
20–23	Locate points in the coordinate plane Comprehend the concept of length on the number line* Exhibit knowledge of slope*	Find the measure of an angle using properties of parallel lines Exhibit knowledge of basic angle properties and special sums of angle measures (e.g., 90° , 180° , and 360°)	Compute the area and perimeter of triangles and rectangles in simple problems Use geometric formulas when all necessary information is given	Evaluate quadratic functions, expressed in function notation, at integer values
24–27	Identify the graph of a linear inequality on the number line* Determine the slope of a line from points or equations* Match linear graphs with their equations* Find the midpoint of a line segment*	Use several angle properties to find an unknown angle measure Recognize Pythagorean triples* Use properties of isosceles triangles*	Compute the area of triangles and rectangles when one or more additional simple steps are required Compute the area and circumference of circles after identifying necessary information Compute the perimeter of simple composite geometric figures with unknown side lengths*	Evaluate polynomial functions, expressed in function notation, at integer values Express the sine, cosine, and tangent of an angle in a right triangle as a ratio of given side lengths
28–32 *	Interpret and use information from graphs in the coordinate plane Match number line graphs with solution sets of linear inequalities Use the distance formula Use properties of parallel and perpendicular lines to determine an equation of a line or coordinates of a point Recognize special characteristics of parabolas and circles (e.g., the vertex of a parabola and the center or radius of a circle)†	Apply properties of 30° - 60° - 90° , 45° - 45° - 90° , similar, and congruent triangles Use the Pythagorean theorem	Use relationships involving area, perimeter, and volume of geometric figures to compute another measure	Evaluate composite functions at integer values Apply basic trigonometric ratios to solve right-triangle problems
33–36 †	Match number line graphs with solution sets of simple quadratic inequalities Identify characteristics of graphs based on a set of conditions or on a general equation such as $y = ax^2 + c$ Solve problems integrating multiple algebraic and/or geometric concepts Analyze and draw conclusions based on information from graphs in the coordinate plane	Draw conclusions based on a set of conditions Solve multistep geometry problems that involve integrating concepts, planning, visualization, and/or making connections with other content areas Use relationships among angles, arcs, and distances in a circle	Use scale factors to determine the magnitude of a size change Compute the area of composite geometric figures when planning or visualization is required	Write an expression for the composite of two simple functions Use trigonometric concepts and basic identities to solve problems Exhibit knowledge of unit circle trigonometry Match graphs of basic trigonometric functions with their equations

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College Readiness Standards — Reading		
	Main Ideas and Author's Approach	Supporting Details
13–15	Recognize a clear intent of an author or narrator in uncomplicated literary narratives	Locate basic facts (e.g., names, dates, events) clearly stated in a passage
16–19	Identify a clear main idea or purpose of straightforward paragraphs in uncomplicated literary narratives	Locate simple details at the sentence and paragraph level in uncomplicated passages Recognize a clear function of a part of an uncomplicated passage
20–23	Infer the main idea or purpose of straightforward paragraphs in uncomplicated literary narratives Understand the overall approach taken by an author or narrator (e.g., point of view, kinds of evidence used) in uncomplicated passages	Locate important details in uncomplicated passages Make simple inferences about how details are used in passages
24–27	Identify a clear main idea or purpose of any paragraph or paragraphs in uncomplicated passages Infer the main idea or purpose of straightforward paragraphs in more challenging passages Summarize basic events and ideas in more challenging passages Understand the overall approach taken by an author or narrator (e.g., point of view, kinds of evidence used) in more challenging passages	Locate important details in more challenging passages Locate and interpret minor or subtly stated details in uncomplicated passages Discern which details, though they may appear in different sections throughout a passage, support important points in more challenging passages
28–32*	Infer the main idea or purpose of more challenging passages or their paragraphs Summarize events and ideas in virtually any passage Understand the overall approach taken by an author or narrator (e.g., point of view, kinds of evidence used) in virtually any passage	Locate and interpret minor or subtly stated details in more challenging passages Use details from different sections of some complex informational passages to support a specific point or argument
33–36†	Identify clear main ideas or purposes of complex passages or their paragraphs	Locate and interpret details in complex passages Understand the function of a part of a passage when the function is subtle or complex

Descriptions of the EPAS (EXPLORE, PLAN, and ACT) Reading Passages

Complicated Literary Narratives refers to excerpts from essays, short stories, and novels that tend to use simple language and structure, have a clear purpose and a familiar style, present straightforward interactions between characters, and employ only a limited number of literary devices such as metaphor, simile, or hyperbole.

More Challenging Literary Narratives refers to excerpts from essays, short stories, and novels that tend to make moderate use of figurative language, have a more intricate structure and messages conveyed with some subtlety, and may feature somewhat complex interactions between characters.

Complex Literary Narratives refers to excerpts from essays, short stories, and novels that tend to make generous use of ambiguous language and literary devices, feature complex and subtle interactions between characters, often contain challenging context-dependent vocabulary, and typically contain messages and/or meanings that are not explicit but are embedded in the passage.

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College Readiness Standards — Reading (continued)

	Sequential, Comparative, and Cause-Effect Relationships	Meanings of Words	Generalizations and Conclusions
13–15	Determine when (e.g., first, last, before, after) or if an event occurred in uncomplicated passages Recognize clear cause-effect relationships described within a single sentence in a passage	Understand the implication of a familiar word or phrase and of simple descriptive language	Draw simple generalizations and conclusions about the main characters in uncomplicated literary narratives
16–19	Identify relationships between main characters in uncomplicated literary narratives Recognize clear cause-effect relationships within a single paragraph in uncomplicated literary narratives	Use context to understand basic figurative language	Draw simple generalizations and conclusions about people, ideas, and so on in uncomplicated passages
20–23	Order simple sequences of events in uncomplicated literary narratives Identify clear relationships between people, ideas, and so on in uncomplicated passages Identify clear cause-effect relationships in uncomplicated passages	Use context to determine the appropriate meaning of some figurative and nonfigurative words, phrases, and statements in uncomplicated passages	Draw generalizations and conclusions about people, ideas, and so on in uncomplicated passages Draw simple generalizations and conclusions using details that support the main points of more challenging passages
24–27	Order sequences of events in uncomplicated passages Understand relationships between people, ideas, and so on in uncomplicated passages Identify clear relationships between characters, ideas, and so on in more challenging literary narratives Understand implied or subtly stated cause-effect relationships in uncomplicated passages Identify clear cause-effect relationships in more challenging passages	Use context to determine the appropriate meaning of virtually any word, phrase, or statement in uncomplicated passages Use context to determine the appropriate meaning of some figurative and nonfigurative words, phrases, and statements in more challenging passages	Draw subtle generalizations and conclusions about characters, ideas, and so on in uncomplicated literary narratives Draw generalizations and conclusions about people, ideas, and so on in more challenging passages
28–32*	Order sequences of events in more challenging passages Understand the dynamics between people, ideas, and so on in more challenging passages Understand implied or subtly stated cause-effect relationships in more challenging passages	Determine the appropriate meaning of words, phrases, or statements from figurative or somewhat technical contexts	Use information from one or more sections of a more challenging passage to draw generalizations and conclusions about people, ideas, and so on
33–36†	Order sequences of events in complex passages Understand the subtleties in relationships between people, ideas, and so on in virtually any passage Understand implied, subtle, or complex cause-effect relationships in virtually any passage	Determine, even when the language is richly figurative and the vocabulary is difficult, the appropriate meaning of context-dependent words, phrases, or statements in virtually any passage	Draw complex or subtle generalizations and conclusions about people, ideas, and so on, often by synthesizing information from different portions of the passage Understand and generalize about portions of a complex literary narrative

Uncomplicated Informational Passages refers to materials that tend to contain a limited amount of data, address basic concepts using familiar language and conventional organizational patterns, have a clear purpose, and are written to be accessible.

More Challenging Informational Passages refers to materials that tend to present concepts that are not always stated explicitly and that are accompanied or illustrated by more—and more detailed—supporting data, include some difficult context-dependent words, and are written in a somewhat more demanding and less accessible style.

Complex Informational Passages refers to materials that tend to include a sizable amount of data, present difficult concepts that are embedded (not explicit) in the text, use demanding words and phrases whose meaning must be determined from context, and are likely to include intricate explanations of processes or events.

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College Readiness Standards — Science

	Interpretation of Data	Scientific Investigation	Evaluation of Models, Inferences, and Experimental Results
13–15	Select a single piece of data (numerical or nonnumerical) from a simple data presentation (e.g., a table or graph with two or three variables; a food web diagram) Identify basic features of a table, graph, or diagram (e.g., headings, units of measurement, axis labels)		
16–19	Select two or more pieces of data from a simple data presentation Understand basic scientific terminology Find basic information in a brief body of text Determine how the value of one variable changes as the value of another variable changes in a simple data presentation	Understand the methods and tools used in a simple experiment	
20–23	Select data from a complex data presentation (e.g., a table or graph with more than three variables; a phase diagram) Compare or combine data from a simple data presentation (e.g., order or sum data from a table) Translate information into a table, graph, or diagram	Understand the methods and tools used in a moderately complex experiment Understand a simple experimental design Identify a control in an experiment Identify similarities and differences between experiments	Select a simple hypothesis, prediction, or conclusion that is supported by a data presentation or a model Identify key issues or assumptions in a model
24–27	Compare or combine data from two or more simple data presentations (e.g., categorize data from a table using a scale from another table) Compare or combine data from a complex data presentation Interpolate between data points in a table or graph Determine how the value of one variable changes as the value of another variable changes in a complex data presentation Identify and/or use a simple (e.g., linear) mathematical relationship between data Analyze given information when presented with new, simple information	Understand the methods and tools used in a complex experiment Understand a complex experimental design Predict the results of an additional trial or measurement in an experiment Determine the experimental conditions that would produce specified results	Select a simple hypothesis, prediction, or conclusion that is supported by two or more data presentations or models Determine whether given information supports or contradicts a simple hypothesis or conclusion, and why Identify strengths and weaknesses in one or more models Identify similarities and differences between models Determine which model(s) is(are) supported or weakened by new information Select a data presentation or a model that supports or contradicts a hypothesis, prediction, or conclusion
28–32*	Compare or combine data from a simple data presentation with data from a complex data presentation Identify and/or use a complex (e.g., nonlinear) mathematical relationship between data Extrapolate from data points in a table or graph	Determine the hypothesis for an experiment Identify an alternate method for testing a hypothesis	Select a complex hypothesis, prediction, or conclusion that is supported by a data presentation or model Determine whether new information supports or weakens a model, and why Use new information to make a prediction based on a model
33–36†	Compare or combine data from two or more complex data presentations Analyze given information when presented with new, complex information	Understand precision and accuracy issues Predict how modifying the design or methods of an experiment will affect results Identify an additional trial or experiment that could be performed to enhance or evaluate experimental results	Select a complex hypothesis, prediction, or conclusion that is supported by two or more data presentations or models Determine whether given information supports or contradicts a complex hypothesis or conclusion, and why

Science College Readiness Standards are measured in the context of science topics students encounter in science courses. These topics may include:

Life Science/Biology	Physical Science/Chemistry, Physics	Earth & Space Science
<ul style="list-style-type: none"> Animal behavior Animal development and growth Body systems Cell structure and processes Ecology Evolution Genetics Homeostasis Life cycles Molecular basis of heredity Origin of life Photosynthesis Plant development, growth, structure Populations Taxonomy 	<ul style="list-style-type: none"> Atomic structure Chemical bonding, equations, nomenclature, reactions Electrical circuits Elements, compounds, mixtures Force and motions Gravitation Heat and work Kinetic and potential energy Magnetism Momentum The Periodic Table Properties of solutions Sound and light States, classes, and properties of matter Waves 	<ul style="list-style-type: none"> Earthquakes and volcanoes Earth's atmosphere Earth's resources Fossils and geological time Geochemical cycles Groundwater Lakes, rivers, oceans Mass movements Plate tectonics Rocks, minerals Solar system Stars, galaxies, and the universe Water cycle Weather and climate Weathering and erosion

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